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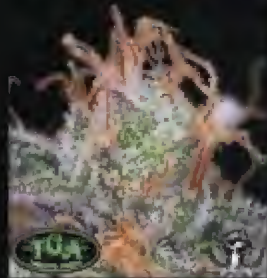
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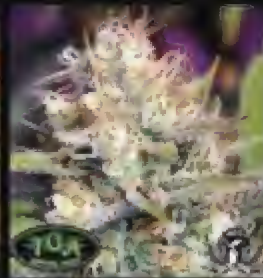
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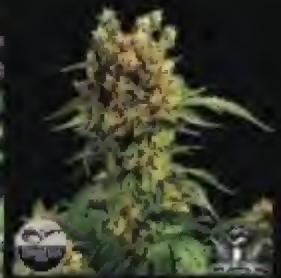
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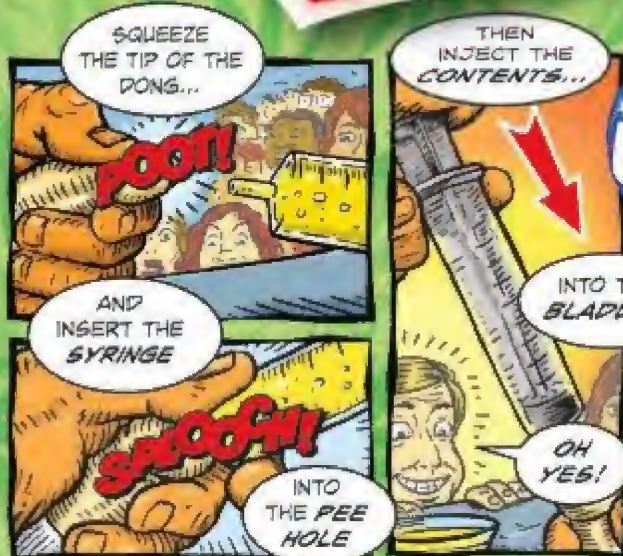
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HIGH TIMES JULY



*“I had a cross that a friend gave me—
out of every 100 seeds, one would throw a purple stem.”*

—Seeds: *The Beginning of the Bud*, Page 60

8	Editor's Letter
10	Letters
12	Contact High
19	Highwitness News
	Pill problem in America; War Zone Weed; mixed martial marijuana arts. <i>Entertainment (p.27)</i> <i>Internet (p.36)</i> <i>Food (p.38)</i> <i>Gear (p.40)</i> <i>Markets (p.42)</i>
99	Dear Danko
106	Ask Dr. Mitch
108	Adventures in the Counterculture
110	Almost Infamous
112	NORMLizer/FFOTM
120	Pix of the Crop
126	Next Month
132	The Pot 40

47 99 Plants in Seven Days

Everybody wants to get to harvest quicker. Speed up the time it takes to grow. These simple cloning techniques will get you there. *By Greg Green*

54 The Marijuana Explosion

No doubt about it, cannabis consciousness has seeped into every segment of the population. *By Jon Gettman*

60 Seeds: The Beginning of the Bud

Learn the benefits of growing cannabis from seeds and the best ways to create your own marijuana strains. *By Kym Kemp*

72 Inside The Cornbread Mafia

Back in the '80s a group of good ol' boys down in Kentucky grew multi-ton loads of high-quality *indica*. *By James Higdon*

80 21 Hot Tips for Cool Growrooms

Don't sweat it! You can survive high temps. Beat the heat this summer and harvest successfully. *By Danny Danko*

90 HIGH TIMES Interview with Jamie Kennedy

The gifted stand-up comedian talks about his ascendance and getting high. Are they the same thing? *By Dan Skye*

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Pot-ulation Explosion!

It's no coincidence that the growth of the cannabis industry and a renewed cannabis consciousness coincided with the meteoric rise of the Internet and social media technology, which allowed activists, patients, growers, tokers and voters to communicate with each other and share information. This month, we're pleased to have top cannabis researcher Jon Gettman return to our pages with his take on the thriving pot scene, "The Marijuana Explosion."

America's top cash crop.



You may remember Jon's superlative report from 2006, "Marijuana Production in the United States." In that study, he concluded that despite massive eradication efforts on the part of the federal government, "Marijuana has become a pervasive and ineradicable part of the national economy." In fact, he called it America's "most valuable crop."

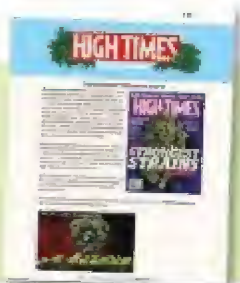
Now, after examining the cannabis stats and trends in America afresh, Gettman provides us with a tightly focused overview of the rising popularity of pot among all segments of the US population. The utter ineffectiveness of the government's response leads him to conclude that "the Feds lost the War on Pot a long time ago. They're just afraid to admit it."

In this issue of HIGH TIMES, our articles reinforce Gettman's thesis solidly. Just check out this month's features, "99 Plants in Seven Days" and "Seeds: The Beginning of the Bud." Our goal is to enable the shockwaves of the marijuana explosion to reach the very ends of the Earth. That's why we try to provide the best cultivation literature available—so that gardens will proliferate, patients will have access to effective medicine and the price of pot will drop for everyone.

Dan Skye
Executive Editor

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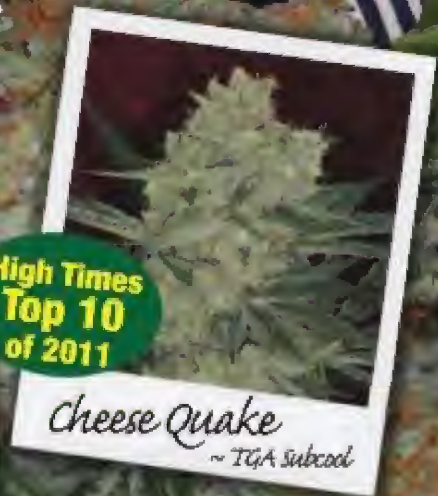
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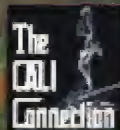
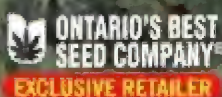
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Distinguished Service

I am a Marine and I started smoking marijuana six months ago. It has changed my life for the better. I have been able to stop taking all the pills that were used to treat my PTSD after returning from Iraq. The propaganda that the government gives our troops is all lies. This medicine has my complete support and I will always encourage its use. Keep up the good work. —*T.N.*

Caught in the Justice Machine

Please help me with a few questions. Do human and civil rights mean anything in this country? This should be an easy answer, but I'm afraid it isn't. Since when is it illegal to have a HIGH TIMES magazine? Of the 23 charges I'm facing, one is for having a HIGH TIMES magazine. Do you know what the difference is between the "manufacture" of marijuana and "cultivation" of marijuana? Because I'm also being charged with manufacturing marijuana. Another offense was for selling drugs, but I've never in my life sold any drugs! I've been growing my own marijuana for stomach pain since I had my gall bladder removed in 1997 and marijuana helps with my appetite and pain. I will never regret growing my own marijuana, but these pointless arrests and senseless laws have to stop. —*J.S.*

Laws vary from state to state and community to community, but we've seen many cases wherein prosecutors have defined HIGH TIMES as "drug paraphernalia." "Manufacture" and "cultivation" define the same action. Depending on the size of a garden, growers can be charged with conspiracy to distribute. If you haven't sold drugs, then the burden of proof is on the prosecution. Get a good lawyer and mount an aggressive defense. Good luck.

Hunting for Females

I live in São Paulo, Brazil, and I agree with the article about the Brazilian "prensado" ("2011 Global Harvest Report," Dec. '11). However, in 99 percent of the schwag you find, the color isn't that green. The seeds we find in schwag grows very good outdoors. But it's a problem spending a whole year trying to find a female. You guys can't imagine my frustration. The flowers, the smell—so good!—and then the pollen drops in my hands. Another male! But I will go on. I will find the female for my garden and for my life...one day. Thanks for the inspiration. By the way, here in Brazil it is very dangerous buying seeds



It's a problem spending a whole year trying to find a female. You guys can't imagine my frustration.

online. So I have no choice but to stay with my brown stuff, hoping that one day this world will be free for us all to grow plants in this earth. —*Sergio*

Sunshine from Florida

I just want to personally thank you for enlightening the masses on the subject of marijuana. I like to think of myself as an activist on the rise. I'm always enlightening people on the subject, whenever I hear someone talking negatively about it. I've also signed a couple of petitions that have been put on the Web and other places. I love cannabis and do my best to stay up to date with all of the studies. I feel that in the next couple of years it will become legal federally and in every state. I'm just glad to be a part of a small portion of the enlightenment in Ocala, FL. Thank you again for the magazine. —*Carlos C.*

Suggestion Box

I really enjoy reading HIGH TIMES. I find the articles very informative. As a big fan of your magazine, I was scanning through the latest issue, and an idea ran through my mind. I thought maybe I'd

share it with you guys, just to see if you like it. A good way

to catch a few more people's attention could be to place a tear-out feature in your magazine—maybe a "Staff's Favorite Strain" type of thing, or something similar. Readers such as myself would probably try to go for a collection of something like that. —*A.T.*

We asked our lawyers and they advised against putting tear-out buds in the magazine. But occasionally, we insert "extras" in the magazine, like rolling papers or stickers. Strain choices packaged like baseball cards isn't a bad idea. We'll smoke over it. By the way, you can tear out the center-fold in every issue!

Idea Man

Today I was thinking about how great pot is and how fun HIGH TIMES is to read. That's when I came up with this possibly world-changing idea. Here's my inspiration: Print a magazine on 4/20/12 and throw free seeds in as a novelty gift. You guys could probably get some special guests to cover this

special, once-in-a-lifetime issue. Take some photos with some celebrities and put them on the cover with an "End of the World" theme to it, since we're living in 2012. And you could make a DVD showing the process of getting all the seeds with celebrity guests. Throw a small V.I.P party and film it. All of those seeds in the hands of anyone and everyone would be a very novel thing. Just imagine how many people would go crazy on 4/20/12 to buy magazines. You guys would make a lot of money. Right now it's a dream for me, but imagine if it was a reality for everyone. Smoke On! —*Nate S.*

Um, maybe you haven't heard—marijuana is illegal. But don't you just love it when marijuana opens the windows of your brain and earth-shaking ideas flow in?

Future Tycoon

I just got the May issue in the mail. Saw the cover and was excited to see something I could improve my bud even more. I can't wait until this stuff is legal for everyone. I will be able to make a nice living selling premium bud. Free the Weed! —*Rob*

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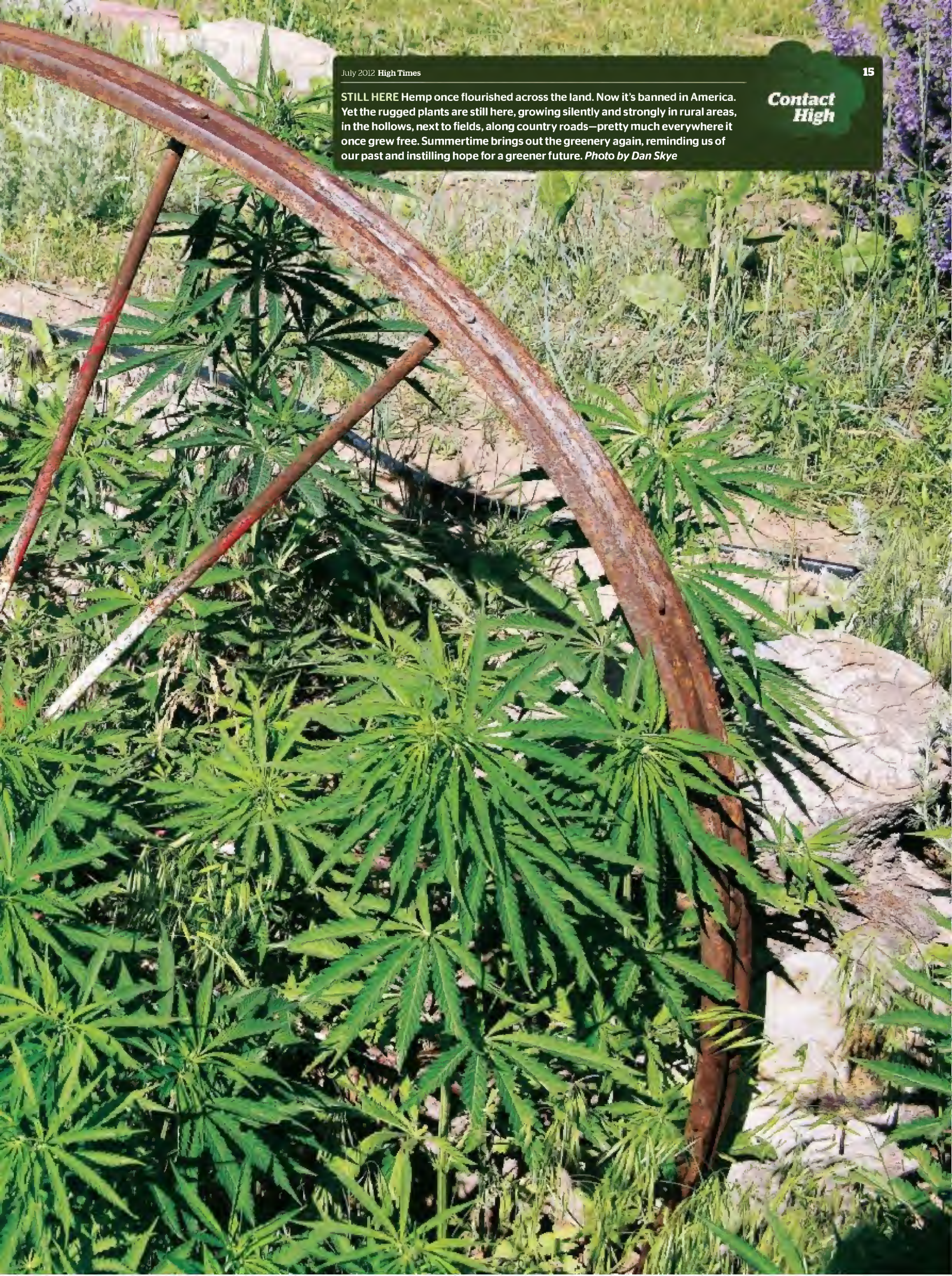
WEB OF WEED Let's make some puns: This is one hot "website." Thousands of "hits" will result because of this particular website. We hope this 420 never "404s." Okay, enough! Read "99 Plants in 7 Days!" on page 47 and build your own web of weed in a week! *Photo by Freebie*





STILL HERE Hemp once flourished across the land. Now it's banned in America. Yet the rugged plants are still here, growing silently and strongly in rural areas, in the hollows, next to fields, along country roads—pretty much everywhere it once grew free. Summertime brings out the greenery again, reminding us of our past and instilling hope for a greener future. *Photo by Dan Skye*

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IN THE BEGINNING According to a Chinese proverb: "Life begins the day you start a garden." And every garden, at some point, starts with a seed, a true living miracle. Think about it—the Earth is alive; seeds are alive. When they're introduced to each other, miracles happen! Check out "Seeds: The Beginning of the Bud" on page 60. *Photo by Lochfoot*

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Highwitness News

Medical legend Angel Raich gets bounced from the hospital.



Update

Oaksterdam Showdown

America's top cannabis college under seige p.24



Food

Stoner Fruit Salad

Eating high and healthy in the summertime p. 38



Nature's medicine has always been superior to synthetic remedies.



POT, PILLS & PROFITS

Medicinal cannabis gains in stature, even as the pharmaceutical industry continues to rake in billions and ruin the world's health. *By Mark Miller*

Medical marijuana has been around a *lot* longer than 1996, when it was legalized in California and consequently set off a chain reaction that's seen nearly one-third of all US states approve the use of pot as medicine. Believe it or not, medical marijuana even predates pharmaceutical drugs—those products advertised relentlessly on TV in ads that spend at least half their time warning about the unwanted side effects. But medical marijuana is infinitely safer than nearly any prescription drug, as well as being at least as effective—if not more so—when it comes to treating a range of maladies.

Thus, in one corner of public opinion stands marijuana, whose healing properties predate the birth of Christ by at least 2,000 years. In the other, we have Big Pharma—defined as the 12 largest pharmaceutical companies in the world, all of which rank in the Fortune 500, with half of them located in the US (including the two biggest, Johnson & Johnson and Pfizer).

These days, the top 20 American pharmaceutical corporations employ more than 1,200 registered lobbyists in DC and spend over \$100 million annually—more than any other industry—to lobby federal

lawmakers and ensure their continued pervasive influence.

A brand new study published in the *British Medical Journal* is full of sobering stats regarding sleeping pills, one of the most seemingly innocuous and widely used pharmaceuticals—and it only serves to underscore the superiority of medical marijuana versus prescription drugs. The researchers found that even those people taking less than two sleeping pills per month (18 a year) were up to three times more likely to die a premature death, while those taking the most pills (132 annually) were *five times* more likely to die prematurely, and also had up to a 35 percent greater chance of developing cancer than people who never used them.

Conversely, marijuana is a time-tested natural hypnotic—or soporific—drug that induces sleep in many of its users, especially when a more relaxing *indica* strain is consumed as opposed to a mentally stimulating *sativa*. (Certainly, the oft-cited refrain by non-tokers is that smoking pot makes them sleepy.)

In 2003, the US Substance Abuse and Mental Health Services Administration acknowledged the following: “Marijuana is rarely the only drug involved in a drug abuse death. Thus ... the proportion of marijuana-induced cases labeled as ‘One drug’ [i.e., marijuana alone] will be zero or nearly zero.”

Ironically, the same can hardly be said of pharmaceuticals, which cause tens of thousands of deaths every year as well as hundreds of thousands of “serious outcome events” such as hospitalization. In the first 10 years of the 21st century, there were a total of 450,000-plus deaths and 2.8 million adverse events from the use of FDA-approved drugs. Just to give you a sense of how those numbers are escalating, in 2000 there were some 20,000 deaths and 150,000 serious outcomes. By 2010, that number had grown to 82,000 deaths and almost half a million serious outcomes.

Not surprisingly, Big Pharma has decided to jump on the cannabis bandwagon by

synthesizing its own medical cannabis analogues. Even before California passed Proposition 215 in 1996, two perfectly legal synthetic cannabis drugs had been developed and approved for use by the FDA. The best-known of these is Marinol, the brand name for the drug dronabinol, a pure isomer of THC (i.e., a chemical compound with the same molecular formula but a different structure), which is administered in pill form to alleviate nausea in cancer patients undergoing chemo as well as to stimulate the appetites of AIDS patients.

Marinol is manufactured by Solvay Pharmaceuticals, a Belgian company famous for employing a Polish worker named Karol Wojtyła (who later became Pope John Paul II) to help the future pontiff avoid deportation to Germany during World War II. According to the federal Controlled Substances Act, Marinol is a Schedule III drug, meaning it's considered to have less potential for abuse than Schedule I and II drugs. (Cannabis, of course, is Schedule I.) However, unlike nontoxic marijuana, even Marinol has been associated with four deaths between 1997 and 2005, according to FDA statistics. And because its active ingredient is pure synthetic THC, Marinol is also *more* psychoactive than cannabis, which means it can cause adverse

Unlike nontoxic marijuana, even Marinol has been associated with four deaths between 1997 and 2005, according to FDA statistics.

reactions in some patients—not to mention being much more expensive than even black-market pot.

The lesser-known legal synthetic cannabinoid that was also in use is nabilone, a Schedule II drug marketed as Cesamet and prescribed in the UK, Canada, Mexico and (since 2006) in the US. Beyond nausea treatment and appetite stimulation, nabilone is taken for chronic pain management and to reduce the occurrence of nightmares in patients with post-traumatic stress disorder, since the synthetic compound shares organic pot's ability to suppress REM sleep and dream recall in most users.

Since the passage of Prop. 215, a few other cannabis-related drugs have come on the market. Developed by the UK-based GW Pharmaceuticals, Sativex is the trade name for nabiximols, a cannabinoid oromucosal (i.e., mouth) spray used to treat multiple sclerosis symptoms in the UK and other European Union nations. It's also in advanced FDA trials for approval in the US.

Accompia is the trade name for the

drug rimonabant, the first selective cannabinoid-receptor blocker ever approved for use when it was marketed in the EU in 2006. By blocking the body's CB1 receptors (the same ones that give you the "munchies" when stoned), the drug suppresses appetite. But two years later, Accompia was outlawed due to its side effects, which included severe psychiatric issues—up to and including suicidal thoughts—in some users. It seems that Accompia not only reversed the munchies but also cannabis's euphoric effects, triggering dark depressions.

The future success (or failure) of these kinds of synthetic drugs will be determined by how effectively they can manipulate the body's natural cannabinoid receptors (CB1 in the brain, CB2 in the gastrointestinal, immune and peripheral nervous systems) without such nasty side effects. The bottom line is that Big Pharma isn't going away—and, luckily, neither is pot, in either its natural or synthetic form. The promise of untold medical benefits—and, for Big Pharma, potential profits—is just too great. ✨

HIGH FIVE

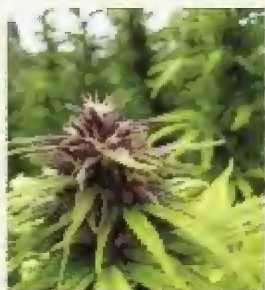
War Zone Weed

The world's hot spots also produce some of its top pot varieties. Now if we could just get those in power to toke up and chill out...



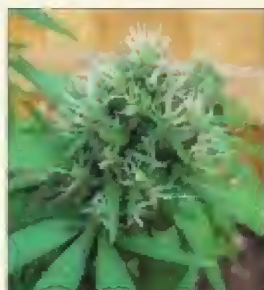
AFGHANISTAN

We've been there nearly 11 years (sigh), since shortly after the 9/11 attacks. The main strain for troops, terrorists and local citizens alike is *Afghan Kush*—a potent, fragrant *indica* with a smooth aftertaste that originates in the Hindu Kush mountains separating the country from Pakistan. It offers a mellower *indica* high—and after over a decade of hostilities on the ground there, "mellow" sure sounds nice.



MEXICO

The Mexican Drug War has pitted cartels against the federal police and military. In the state of Veracruz, where mass graves of cartel murder victims can be found, one of the more popular native strains is *Oaxaca*, a satisfying *sativa* that produces an upbeat, cerebral high. You'll need it to stay optimistic: Mexico has had 50,000 Drug War-related murders in the past five years—a killing every half hour.



IRAN

Well, Iran isn't at war—yet—but increasing tensions with Israel and the West might change that. On the bright side, Iran's mountainous terrain is ideal for growing. A powerful *indica* strain to emerge there is *Iranian Autoflower*, with an earthy taste that evokes Middle Eastern hashish. Autoflower buds are densely packed nuggets that, when smoked in sufficient quantities, smooth diplomatic tensions.



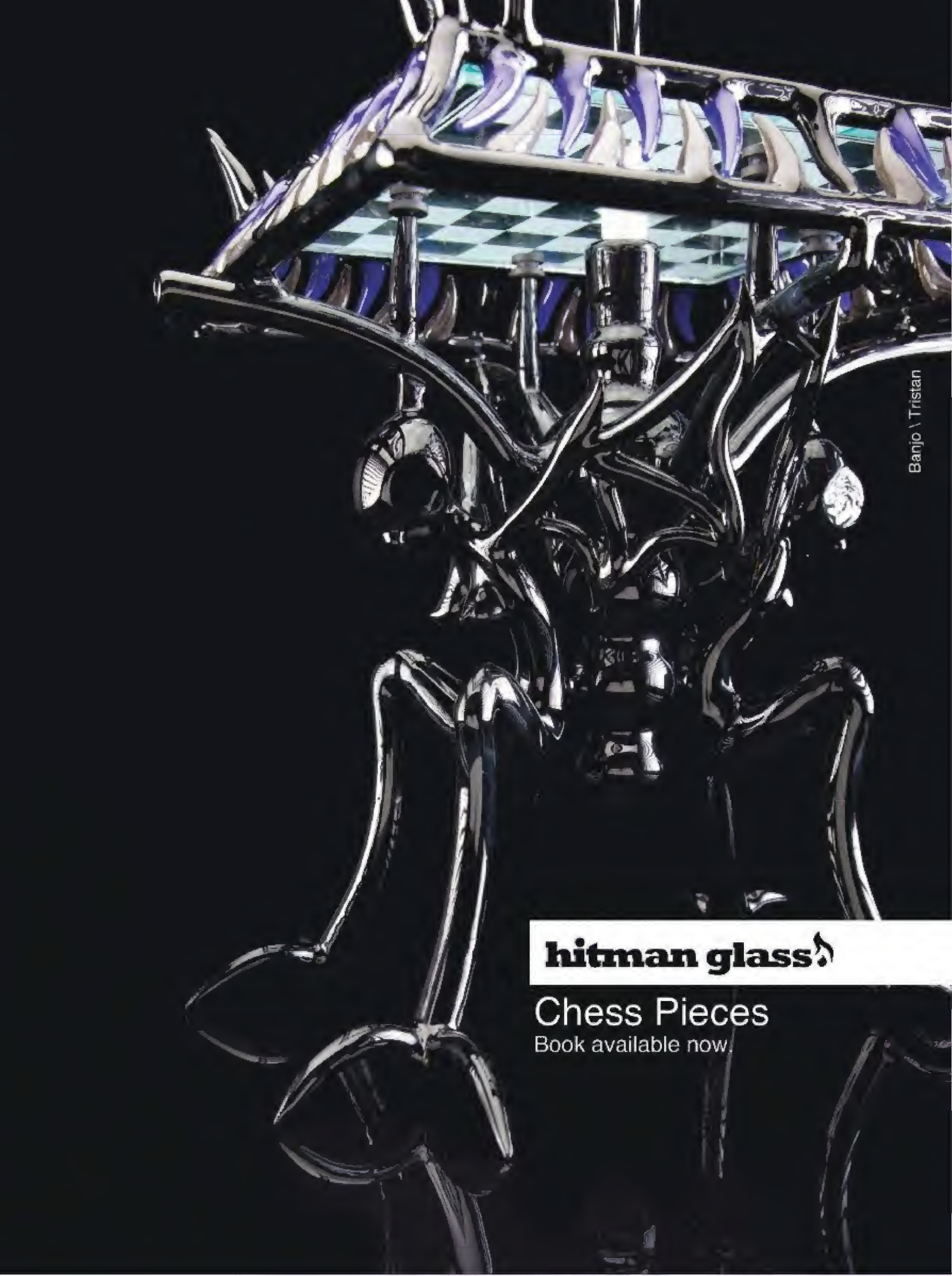
ISRAEL

A vibrant medical marijuana community thrives in Israel. *Blueberry Kush* is a potent *indica* cultivated specifically to relieve pain as well as stress. Considering that Israelis are surrounded by neighbors who hate them, stress relief is essential. Even better, Jewish scholars say that cannabis is kosher—which means that the High Holy Days have a whole new pleasurable meaning.




COLOMBIA

There's been a war raging in South America since 1964—known as the Colombian Civil War, with government forces squaring off against revolutionaries and peasant guerrillas. Good pot's been around even longer. The *sativa*-dominant *Colombian Gold*, which originates in the Santa Marta Mountains, is aromatic, with a fruity taste and heady high. Perfect for sparking revolutionary thought!



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Judging With Prejudice

Judge Alan Goldsack, senior jurist of the UK's Sheffield Crown Court, may have a great stoner name, but he's a total buzzkill. Recently, Goldsack blatantly disregarded the new, more lenient "soft drug" guidelines issued by the Sentencing Council of England and Wales when incarcerating six blokes for growing pot—at least four of whom should have been sentenced to a period of community service. Perhaps Judge Goldsack's decisions were fueled by the anti-pot crusade of the British tabloids, which print lurid tales of a "skunk epidemic," with the evil weed being grown in "attics, cellars and bedrooms"—oh my!—throughout South Yorkshire.

Under the new guidelines, less than 10 plants means zero jail time, but Judge Goldsack has his own wacky interpretation, ruling that anyone busted with even the "potential" to produce a kilo (2.2 pounds) of pot should receive an "immediate custodial sentence." He informed the court that it would "not be in the interests of justice" to follow the new guidelines. However, his subjective sentencing certainly is in the best interests of fascism.



Jarring Irony

In this election year, the buds are under seige. In states where medical marijuana has been legalized, the Feds have chosen to harass our industry, closing down legitimate businesses and denying patients their medicine. But they seem to be oblivious about what's happening in their own backyard. The Washington, DC Department of Health has named six applicants who can continue moving forward in their bids to establish medical marijuana cultivation centers.

Smart Gals Luv Buds!

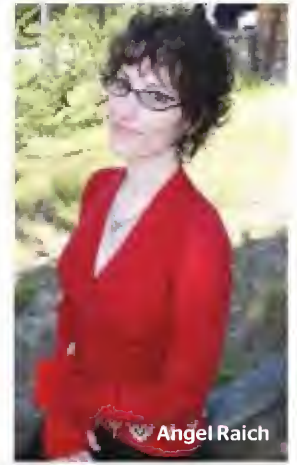
Female potsmokers got smarts. But it's not the pot; they're brainy to begin with. According to a recent report in *ScienceDaily*, women with high IQs are twice as likely to smoke pot (and do coke) as other women. The study IQ-tested 8,000 Brits between the ages of 5 and 30, twice during childhood and at 16 and 30. Men who had high IQs at 5 were 50 percent more likely than dudes with lower IQs to have used ecstasy or speed at 30. Why are high IQs and getting high related? The study's authors cite earlier research showing that smart people are "open to experiences and keen on novelty and stimulation."



Tripping to Sobriety

A recent study published in the *Journal of Psychopharmacology* and based on research from the psychedelic '60s calls for a modern-day investigation into utilizing LSD as a treatment for alcoholism.

Scientists at the Norwegian University of Science and Technology reviewed six US studies from 1966 to 1970 that observed the effects of acid on 536 severe alcoholics. Some were given a single regular dose of LSD, while others received a "diminished hit," a "stimulant drug" substitute or absolutely nothing at all. Sixty percent of all test subjects demonstrated a noticeable improvement in their alcohol addiction and were less likely to return to drinking over the short term. However, most patients showing this progress in the early months of treatment eventually did go back to booze, prompting the Norwegian researchers to suggest that continuous, open-ended LSD treatment could potentially prevent such alcoholic relapses.



No Angels of Mercy

Angel Raich, 46, lives with an inoperable brain tumor and also suffers from radiation necrosis, a tragic complication of her radiotherapy. Her medical marijuana case went before the Supreme Court in 2005; it ruled that the federal government can continue to criminalize production and use of homegrown pot, even in states that have legalized medical use.

In March, Raich was kicked out of the University of California at San Francisco's Medical Center for using medical marijuana. She was awaiting a brain-scan procedure when she decided to vaporize, per her physician's instructions. A doctor reported her to the pharmacy. She was told that the Feds would be called if she didn't cease. Incredibly, the UCSF Medical Center used security guards and law enforcement officers to physically escort her from the premises. Later, in a TV interview, Raich suffered a seizure on-camera and was rushed to a different local hospital.

UCSF officials coldly justified their actions by citing their policy against smoking, which includes medical pot. But Raich wasn't smoking; the vaporizer she uses is smoke-free.

Ganja & Gambling

Internet gaming has made it dangerously easy for many problem gamblers to indulge their vice. Now, a “new” study published in *Cyberpsychology, Behavior and Social Networking*, has associating the “risky behavior” of “frequent and problematic” drinkers and pot users with excessive online gambling.

Don’t sweat it. The study, “Are Online Gamblers More At Risk Than Offline Gamblers?” recycles research from a 2009 Concordia University gambling survey of more than 8,500 Quebec residents—but only 111 surveyed actually gambled online. Neither the 2009 study nor



this one differentiates between pot and booze; they’re just lumped together. Still, the study concludes that people are often wasted while gambling.

There’s a shocking revelation. Hey, you could clean up building a place where people can gamble and party! Oh that’s right, it’s called Las Vegas.

The folks at *Cyberpsychology* seem to embrace the obvious. In 2007, they released another groundbreaking study which reported that African-American teenage females who watch rap music videos are more likely to smoke pot. What’s next? A study proving Deadheads get high more frequently than born-again Christians?



Magical Marin

Upscale Marin County, CA, just north of San Francisco, has long been known for its progressive government inspired by hippie values. Nearby wildlands are protected, and the arts are generously funded. Naturally, Marin abhors evil tobacco smokers—but the county’s board of supervisors may have overstepped themselves in January when they sought to pass an ordinance that would outlaw the smoking of “tobacco, weed, spices, herbal or other plant life” in “private indoor spaces, including balconies, carports, decks and other common places.” At that point, attorneys for the county stepped in to advise the board that, without clarifying language, the ban would also outlaw marijuana.

Whoa, Nelly! The board quickly went back to revise the measure. At press time, the ordinance was still pending.



Demonstrators face new sanctions.

Protest This!

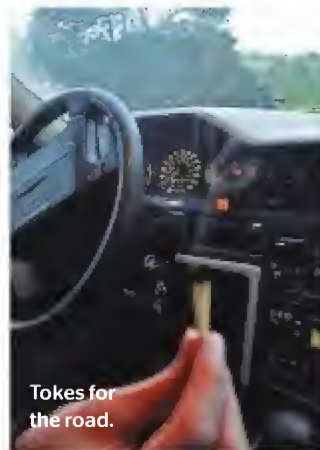
In blatant defiance of the First Amendment, a bill passed swiftly and almost unanimously in both houses of Congress would outlaw the type of public protests associated with the Occupy Wall Street movement. It could also have wider applications—including turning medical marijuana protestors into criminals. If signed by President Barack Obama, HR 347 (formally known as the Federal Restricted Buildings and Grounds Improvement Act), would make it a federal crime—punishable by up to 10 years in prison—to disrupt or even peacefully protest at any event attended by those with Secret Service protection. (Good luck to activists planning to protest future presidential appearances.)

The bill would also criminalize dissent at so-called National Special Security Events (NSSE), which include the Super Bowl and the Academy Awards. So if you’re attending an NSSE, don’t diss Eli Manning or Steven Spielberg. And even if you’re not a protester, be careful where you stand—HR 347 also makes it a crime to enter or remain in any designated “protected area,” even when the person in question doesn’t know it’s illegal to be there.

Teens in High Gear

According to the latest results from a national study of teen drivers, the number of 11th- and 12th-graders driving stoned is higher than ever, with one in five cruising on cannabis in the last year. Furthermore, an increasing number of teens are okay with that.

The annual survey was jointly conducted by insurance giant Liberty Mutual and SADD (now an acronym for Students Against Destructive Decisions—probably renamed because drinking is on the decline; only 13 percent of teens drove drunk in the last year. It reported that 36 percent of teenagers



Tokes for the road.

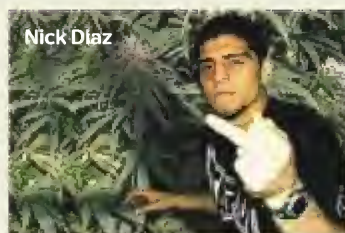
don’t consider driving while high to be “distracted driving,” which is consistent with other studies showing that stoned drivers are more alert and cautious.

What’s especially encouraging is that today’s teens consider alcohol far more dangerous than pot. Fewer than three-quarters of teens would protest if their driver was stoned, but 87 percent would stop a driver they knew

had been drinking. These findings coalesce with statistics showing pot use at its highest among teens in three decades.

Mixed Marijuana Arts

Mixed martial arts fighter Nick Diaz tested positive for marijuana metabolites in February, immediately following his narrow defeat by Carlos Condit for the vacated Ultimate Fighting Championship welterweight title. Diaz was subsequently suspended by the Nevada State Athletic Commission (NSAC) pending a formal hearing. His



Nick Diaz

suspension cast a spotlight on the use of pot—medicinally, recreationally and perhaps even creatively—by at least some big-time MMA contenders.

Diaz, a black belt in Brazilian

jujitsu who trained under the highly regarded Cesar Gracie, suffers from ADHD and social anxiety, both of which can be effectively treated with cannabis. While Diaz is a legal medical pot patient in California, he doesn’t have the same rights in Nevada.

It’s well known in MMA circles that Diaz is a pot smoker, and his most recent failed test is the second in his career. It’s

been suggested that Diaz could apply for a “therapeutic use exemption” with the NSAC, an unprecedented request when it comes to medical marijuana. (And another question: If he didn’t smoke in Nevada, should he be penalized for a positive urine test there?) Diaz dismisses the notion that pot is a performance-enhancing drug, nor does he blame it for his title-fight loss.

FEDS RAID OAKSTERDAM UNIVERSITY

An action guaranteed to piss people off. *By Mark Miller*



Clockwise from left: Feds bar the door; Protesters block the street; Richard Lee, the "mayor" of Oaksterdam.



Pterodactyl take it back to the Stone Age.



On April 2 at sunrise, armed federal agents assisted by Oakland, CA police raided medical marijuana teaching facility Oaksterdam University (OU), located in the heart of the East Bay city's downtown. The DEA, IRS and US Marshals barricaded the entrance of OU and seized boxes of records, as well as 30 large trash bags stuffed with plants and medicinal buds. Four OU employees at the time of the raid were detained by agents but later released.

The Feds also raided three other OU-related properties and kicked in the door of OU founder Richard Lee's residence after the wheelchair-bound Lee failed to respond quickly enough. Like his OU employees, Lee was detained but not arrested. He opted to keep a low profile avoiding the chaotic raid and protest scene at the school he founded in 2007. The world's first "cannabis college" OU offers a curriculum on virtually every aspect of the medical marijuana industry. On OU's website, it read that

"The raid was meant to demoralize us; but it will not cripple us, it will merely galvanize us."

staff were assessing the damage and determining a proper plan to restore the school.

Word of the Feds' actions spread quickly. By mid-morning, hundreds of justifiably angry protesters had appeared. When the agents attempted to haul away confiscated cannabis and files in a semi-truck and other vehicles, the protesters sat and laid down in the streets, preventing some vehicles from leaving and forcing the huge semi to reroute. The Feds did refrain from arrests. However, two arrests were made of media members, which resulted in a violent scuffle between a KPFA radio host and federal agents.

A spontaneous rally on the steps of nearby City Hall followed the raids, in which Oakland City Councilmember Rebecca Kaplan voiced her support for OU.

Adding to the sheer surrealism of the day, a disturbed former student of Oikos University, a Christian college in Oakland, opened fire on the campus and killed seven people. He was later apprehended in another city—by police not occupied helping the Feds raid a pot college. Lee issued a statement that read in part: "Two universities were struck. One by a ruthless killer. Where were our law enforcement officers? Guarding a plant that hasn't killed a human in recorded history. The raid was meant to demoralize us; but it will not cripple us, it will merely galvanize us."

By coincidence, the very next day on April 3, a previously planned rally was held in San Francisco, a march from the steps of City Hall to the nearby Federal Building, to protest US Attorney Melinda Haag, whose office has threatened to prosecute dispensaries that don't shut down. (Five more have since closed.) The rally drew more than 500 emotionally charged protesters, including elected officials from San Francisco who declared their intention to preserve medical marijuana in the city.

If there is any positive fallout from the raid, it's the re-energizing of the medical marijuana movement in the Bay Area, which in the face of ruthless federal opposition, must rise to be stronger than ever. ✨



Watch What I Do, Not What I Say

"I would not have the Justice Department prosecuting and raiding medical marijuana users. It's not a good use of our resources." *Pres. Barack Obama, 2007*

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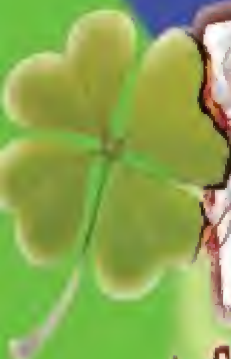
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WEEKDAY WARRIORS

Comedy Central's *Workaholics* mixes pleasure with business. *By Mike Hughes*



Workaholics Anders, Blake, Adam and Kyle take a smoke break.

After breaking into the improv scene in Los Angeles eight years ago, Adam DeVine, Blake Anderson, Anders "Ders" Holm and Kyle Newacheck formed the group Mail Order Comedy and, like any number of other ambitious young improv troupes, began putting up videos on YouTube. Unlike most other ambitious young improv troupes, however, they actually managed to strike gold when Comedy Central stumbled across their Internet oeuvre and liked it enough to green-light a pilot.

The resulting sitcom, *Workaholics*, follows the lives of three twentysomethings hanging onto the pot-and-booze-fueled insanity of their college days while (just barely) holding down jobs as telemarketers. After only two seasons, the show has turned Adam, Blake and Ders into household names in certain stoner circles.

Currently, the guys—including director, co-creator and recurring character Kyle, who, unlike the others, goes by a fictitious first name on the show (Carl)—are hard at work trying to balance production for season three with writing a feature film and partying with their exuberant fan base ... all while keeping it very tight butthole.

Does your sketch comedy background influence the show? Is there a lot of improv in the finished product?

KYLE: Well, it's all very scripted when we go into it. Like we go in with a solid idea of what we're going to do—

ADAM: We have a strong story and a structure, and we all sort of take that and get it the way we've written it and then go off-base and come up with some weird stuff. So, usually, it's a good mix of the

weird and what was written.

BLAKE: We have noticed, though, that when it's like seven in the morning, it's nice to have some jokes on paper. We start improving more after lunch.

The pacing of the show seems tailor-made for the attention span of the Internet age. Did you intentionally bring that type of pacing to *Workaholics* after cutting your teeth on Internet videos?

KYLE: I think so. I mean, coming from the Internet world and a medium where you only create three- to four-minute sketches, you're always looking for a way to make each one its own stand-alone funny scene—like you can watch it individually, but they all chain together into this story that's 30 minutes long.

DERS: It helps separate us

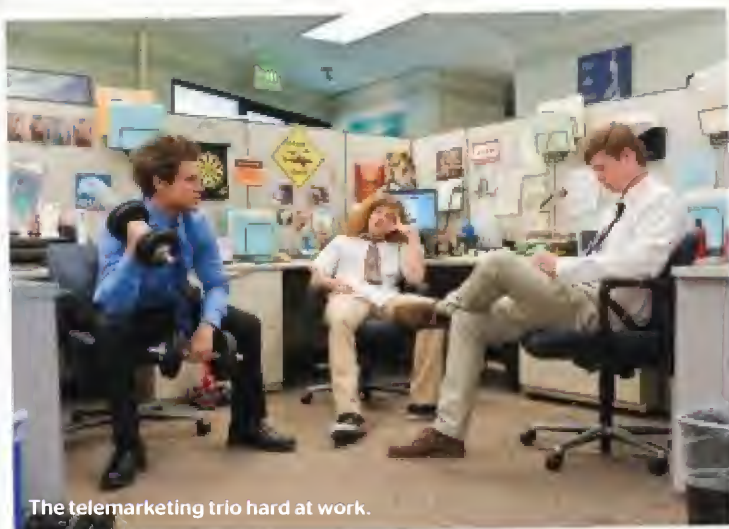
from other shows. It's moving so quickly. We run and gun.

The show goes pretty far, but is there anything Comedy Central wouldn't let you do?

BLAKE: For the most part, they're pretty cool about letting us do almost every single thing.

ADAM: They've been weirdly trusting of a bunch of kids who had like 2,000 hits on their Internet videos. Since day one, they were like, "We believe in you guys." And we were like, "Really? Us? Are you sure?"

BLAKE: We'll take stances on the weirdest things, and they'll go to bat for us. Like we really, really, *really* wanted to show Adam's mangina on the last episode of last season. And they're like, "Well, you can't show pubic hair." And so we're like, "All right, then Adam will be completely shaved." And then—



The telemarketing trio hard at work.



ADAM: I wasn't *completely* shaved.

BLAKE: Yeah, you were pretty clean, though; I was just looking at it this morning. But then Comedy Central actually was like, "Yeah, we'll do it." And I'm pumped about it, because we're pretty sure that that's one of the first manginas on TV.

ADAM: That was a big step for American television.

KYLE: With the guys jerking off, you know, in the car together—that was one thing they wouldn't let us do. You can't move your hand in a jerk-off motion.

You can have erections, but you can't actually touch them?

ADAM: Well, you can jerk off, but you have to jerk off with your shoulder, for some reason.

DERS: No *wrist* action.

KYLE: Yeah, any jerking off on the show is just shoulders.

BLAKE: There's a lot of ways to skin a cat ... [laughter.]

Are people always trying to party with you guys because of the characters you play?

BLAKE: Yeah, definitely, like on trips to music festivals and stuff.

DERS: At Bonnaroo, it's like, "Smoke this!" "Fine! Wait ... what *was* that?"

ADAM: I got lost from these guys during Arcade

"It's just the most amazing thing in the world to go into a fucking store and buy weed with your debit card. I was like ... I couldn't believe it."

Fire, and I'm just walking around, and that was like the first experience where people actually recognized us. And I probably smoked 15 joints on the way back to where our camp was. I was so stoned, I'm sure I looked like a maniac.

BLAKE: That's what's kind of cool about our fan base. I mean, we put it out there that we like to party, so they're like, "Hey, we'll buy you a beer!" or "Here's some of this!" And you're like ... I mean, I'm down.

ADAM: I'm down!

What do you think of the pot scene in California?

ADAM: It's great.

KYLE: I just got my card, and I'm pretty amped about it. I feel like I just unlocked the treasures of Los Angeles.

ADAM: I need to get mine. I don't know why I haven't.

KYLE: It's just the most amazing thing in the world to go into a fucking store and buy weed with your debit card. I was like ... I couldn't believe it.

ADAM: I actually got caught with pot a few years ago, me and Blake. And so I had to do 10 Marijuana Anonymous classes, and I went to these

things—it was just the most painful thing. People were like, "Well, I started smoking weed, and then I did heroin and threw my kids in the dumpster!" And I'm like, "Uh, I think it was the *heroin*. I don't know if it was the weed there ..."

You guys are writing season three of *Workaholics* now. Any plot lines you want to give away?

BLAKE: It's pretty crazy. There's more drug use, there's more adventure, there's more—

KYLE: The guys try some harder drugs.

DERS: Yeah, we amp it up to acid.

ADAM: Ders reads us Steve Jobs's biography, and we get inspired—to do acid.

BLAKE: More adventures. A lot more of the same. We're not trying to change anything up too much.

There's some buzz about a movie, too. Is there a feature film in the works?

DERS: Yeah, we're working on it now; we got the script going.

Is it a *Workaholics* movie?

DERS: It's Mail Order Comedy;

it's a vehicle for us. Kyle will direct, but it will be a totally different backdrop.

ADAM: Same guys, different characters. Different story.

DERS: Different hairstyles.

ADAM: Different wardrobe. But it stars the three of us.

DERS: It's being written right now.

When does the new season start?

DERS: May 29th ... my birthday. [Silence.] No "Happy birthday"? [To the others.] He *seemed* cool.

Sorry...

BLAKE: How old is HIGH TIMES?

1974 was the first issue.

BLAKE: Oh, wow.

ADAM: I actually got in a lot of trouble for having a HIGH TIMES calendar in high school. I put it up in my room, and my parents were like, "You can't do that." And I'm like, "I'll run away!" And they're like, "Please—*Grandma's* coming over!" So I said, "All right, for Grandma, I'll take it down."

That was nice of you.

ADAM: Yeah, she was a sweet woman. ✨

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POP SONGS FROM THE MESOZOIC

New York's Pterodactyl fly high. *By John Payne*



Pterodactyl take it back to the Stone Age.

“We’re about people being able to take whatever they’ve created and make it their own,” says Joe Kremer, the guitarist and singer for Pterodactyl. “That’s not unique in the indie rock world, but there are a lot of bands that are more about *entertainment*. Pterodactyl has never been about that—for better or worse.”

The Brooklyn-based noise-rock group is composed of three core members: Kremer, guitarist/bassist/vocalist Jesse Hodges and the group’s “sardonic drummer,” Matt Marlin (to quote their recent *New York Times* profile). *Spills Out*, the band’s recent third album, is a bewilderingly eclectic journey that roams far and wide, from the indie rock thump of “School Glue” and “Searchers” to the arcane ambience of “Spills Out” and the tribal neo-psychedelicism of “Aphasia” and “Allergy

“We think that cannabis appreciators might possibly be our biggest fans.”

Shots.” You’ll be scratching your head even as you bounce around to its pumped-up peculiarities.

“In the beginning,” says Kremer, “there was a central core where our focus was making this shredding stuff with this grating energy to it, and trying to create funny sounds with instruments in unconventional ways. But with this last record, we took a step away from that to make something that would fit in more of a classic feeling. We set out to make *songs*.”

Even so, Pterodactyl didn’t launch into their new album with any overarching concept; it was more about discovering the songs as they developed, a drawn-out

process that proved exhausting but satisfying. The result is a batch of tunes that are readily accessible, mainly owing to their catchy strands of ’80s and ’90s punk and indie rock bravado, but also to the myriad of twisted references to classic sounds from the ’60s and ’70s, including Beatles-ish backup vocal arrangements and Hammond organ sounds.

“We took that [earlier] focus and fed it through this weird filter with the intent

of making pop music,” Kremer says. “We approached it with an ‘If you build it, they will come’ attitude—like if we make something that doesn’t sound like anything else, then there’ll be people who say, ‘Wow, that’s exciting!’”

“We think that cannabis appreciators might possibly be our biggest fans,” Matt adds, perhaps sardonically.

Pot smokers certainly do get a hefty load of deets in the video for “School Glue,” a shot-by-shot remake of the first *Superman* movie that also features members of Parts and Labor, the Yeah Yeah Yeahs and Ex-Models. Then there’s the video for “The Break,” made up of 1,500 still photos that flash before your eyes at the rate of five pics a second: a Prince album cover, a Balinese gamelan orchestra, a used condom in the street, a graveyard in New Orleans

“The Break” is an experience that weed enthusiasts can surely relate to, Joe offers: “Ultimately, it’s all circles and pictures with a bright light in the center of the photograph. And that’s all it is—just obsessing with this one little idea. That’s definitely an experience that’s common to cannabis fans.”

Of course, one’s appreciation for these videos and their hypnotic attention to detail might well depend on the kind of weed you’re ingesting. In that case, a note of caution: “The Break” is especially intense. ✨



Pterodactyl Picks For Potheads

“Aphasia”: Tribal drums, make guitar squawk!
 “Allergy Shots”: Cavemen crank gnarly fuzz box.
 “Spills In” and “Spills Out”: Glitchy showers of stars in the ambient space of your brain.

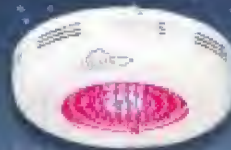
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UNSIGNED BAND
OF THE MONTH:

RootsCollider

SINCE SEPTEMBER 2010, these four crucial points of the *illest* of light have touched down on Earth and emerged on the scene as RootsCollider—the definitive 21st-century “Dry & Heavy Livetronica DubCore” act, which continues to push the sonic envelope toward a state of musical enlightenment.

This future Fab Four are dedicated to bringing their listeners only the freshest cuts of live, original, punishing drum-and-bass, crushing dubstep, destructive



electro-rock and fresh future-funk, all of it blended with the crucial elements of dub reggae.

The band's sole purpose is to supercollide these genres into a single, unstoppable aesthetic force, and they also take pride in being one of the last almost completely analog defenses against the digital era.

RootsCollider have been described as a powerful visceral artistic experience for the mind, body and soul.

Learn more about Rochester's fastest growing live act, including audio samples and tour-dates at hightimes.com/rootscollider.



WAYNE'S WORLD

From HIGH TIMES to high art, a pop culture prodigy rises.

It's already sundown in LA, and from the street an eerie light crawls up the steep, winding steps of Wayne White's Los Feliz home. At the top of the stairs sits a brooding hound, her gruff bark and rigid face belied only by her furiously wagging tail. Like her bearded, banjo-wielding owner ensconced in the studio she's guarding, she's perfectly out of place among the palm trees and Mercedes coupes speckled across these California hills.

That's White's legacy, really. At this point, he's either been a strange Southerner in the highfalutin world of fine art, or a highfalutin fine artist in the strange South. And while many people might not recognize his face if they passed him on the street, White's work is firmly ingrained in the minds of many whose pop culture exposure peaked during the past 20 years.

His first breakaway moment came with his arrival in New York City in the mid-'80s, where he set himself up as a comic artist and cover illustrator for publications like the *Village Voice*, *New York Times* and HIGH TIMES itself. After his stint in the publishing world, White was offered a chance to design sets and puppets for a brand-new children's show to be shot in a sketchy, abandoned warehouse in lower Manhattan. That show was *Pee-wee's Playhouse*, and the

characters that sprung from his mind included many of the anthropomorphic freeloaders and best pals of Paul Reubens' titular character.

After *Pee-wee* took a flying-bicycle ride into mainstream popularity, White subsequently moved on to a successful career as an art director for music videos (including Smashing Pumpkins' iconic *Tonight, Tonight* video) and painter. As a result, he's now the subject of the docu-

mentary *Beauty Is Embarrassing*, which debuted in March at the SXSW Film Festival.

A chronicle of White's life and reputation as somewhat of a joker and outcast among the stuffy, upward-inclined noses of the art world's elite, the movie provides viewers with an honest look at what it's like to be fear-

lessly critical and funny about a culture's flaws—while being a guilty offender at the same time.

“That's the embarrassing part,” White says. “You get self-conscious and worry about the world crowding in around you, but you work really hard to be accepted by the group. So there's a constant, real contrast between being alone and then wanting attention for it.”

In the insular world of painting, however, White has found a creative balance. “Everybody wants something they can do independently from everyone else,” he says. “It's my favorite illusion.” *Tyler Stewart*

At this point, he's either been a strange Southerner in the highfalutin world of fine art, or a highfalutin fine artist in the strange South.



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SOUL REBEL

A new film digs deep into the life of Bob Marley.

THIS DOCUMENTARY is going to rock the world from Zion to Babylon and back again.

Bob Marley was one of those rare musicians whose work has the element of timelessness. In his short life, he created a wide-ranging catalog of music that continues to be discovered by each successive generation. Accordingly, many of us feel that we know Bob, but this I can guarantee: You're going to learn a lot more.

Executive producer Ziggy Marley told HIGH TIMES, "It's a very realistic documentary about his life—much deeper than anything before, especially about his personal side. Fans will feel much closer to Bob when they see this. We chose to enter an emotional connection—not just portray the performance side or the legend side of Bob, but the emotional side of his life."

Covering Marley's humble beginnings in Trench



Marley
Directed by Kevin MacDonald
(Magnolia Pictures)

Town all the way to his battle with cancer (which he lost at the all-too-young age of 36), this is a moving portrait. Academy Award-winning director Kevin MacDonald has created an engaging collage of interviews with those who knew Bob best (Rita, the kids, the baby-mamas, Peter Tosh, Bunny, many others), as well as never-before-seen footage,

photos and a killer soundtrack.

The film is filled with evocative scenery and choice nuggets of information, such as the meaning behind many of Marley's most beloved songs. Your eyes feast on everything from the breathtaking vistas and mountains of Jamaica to Lee "Scratch" Perry's shocking pink hair. The core of the movie, however, is the evolution of Bob from an ambitious teen to a father, lover, husband, humble superstar, soulful revolutionary, cultural warrior and deeply spiritual Rastafarian. *Mary Ought Six*

MUSIC RECOMMENDATIONS



Seas Will Rise
Disease Is Our Refrain
(Man in Decline/Anxiety Machine)

I really, really wanted to like this album. Reading the press kit from these Arizona heavies, I spotted two of my favorite terms: "Discharge" (as in the early-'80s D-beat UK legends) and "DIY."

Unfortunately, this turns out to be competent but standard-issue downtuned doom/grind-influenced hardcore,



Spielgusher
Spielgusher
(Clenchedwrench)

Arty punk bassist Mike Watt (Minutemen, Stooges and a billion others) hooks up with gonzo music critic/poet R. Meltzer and members of the Japanese electronic-poppers Cornelius for some rudely choice interfaces of sound and the spoken word. Watt and the Cornelius crew jammed

lit by the occasionally incandescent lead axe. The best licks here ignite: "In Dust and Blood," "Eviction Notice," the brief "Population Zero" and album closer "Warmer Graves," which starts slow before opening up as wide and bright as the desert that spawned these guys. *Polly Watson*

out the jazzy/funky/ambient tones in Tokyo, then chopped it all up and incorporated cranky Meltzer's scabrous and not-so-oddly moving rants, wherein "I walk with my penis, I talk with my shoes, I eat with my nose, I fuck with my teeth ... I ask for nothing!" A strange trip indeed. *John Payne*



Buckethead
Electric Sea
(Metastation)

Declaring Buckethead the greatest guitarist in rock isn't too outrageous; his technical mastery is surpassed only by his ability to summon previously unheard emotional textures from the instrument. Though his 35th solo album is titled *Electric Sea*, it's essentially an acoustic collection that serves as a

prime showcase for Bucket's emotive prowess, as on the title track. *Sea* offers two covers of Bach's classical "La Gavotte"—a traditional rendition, then a subtly electrified version dubbed "Bachthead." The LP closes with "The Homing Beacon," a 2009 tribute to Michael Jackson. *Mark Miller*



Various Artists
Bollywood Bloodbath
(Finders Keepers/B-Music)

Veteran Indian film composers let their hair down for some seriously skewed funk, disco and rock in scores for Mumbai horror films. Heavily reverbed bongos, twangin' guitars, rinky-dink synths and creaky, vintage electronic FX graced scenes of vampires, slashers and creatures from the inky

depths. Given the freedom afforded by the notion that these films would never be seen outside of India, venerated names like R.D. Burman and Bappi Lahiri delivered tracks that come off like Bollywood musicals all squished into one, then hacked with a machete and torched. *John Payne*

BOOK RECOMMENDATIONS



The Onion
Love, Sex and Other Natural Disasters
(Quirk Books)

The new *Onion* book, *Love, Sex and Other Natural Disasters* is loaded with fake headlines, bizarre captions and hilarious pictures. There is no political humor in the latest book; the *Onion* takes direct aim and hits consistent bullseyes with material about dating, marriage and sex. Forgo the

boner pills and chocolate, this is the perfect gift for your stoner significant other who has a stellar sense of humor. The jokes are delivered in perfect deadpan newspaper style that never lets on to the reader. Few books will actually make you laugh out loud, and this is one of them. *Rob Cantrell*

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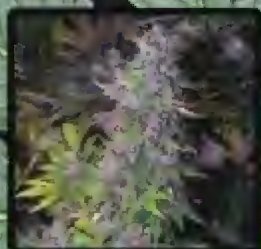
Lady Liberty



GSPOT



Burmese



Blackberry



Gold



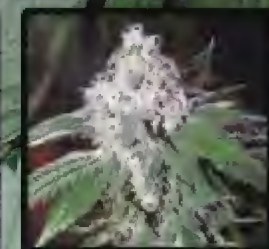
Fucking Incredible



Mother



British Columbian



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FUCKING INCREDIBLE - High Times Top 10 Strains 2008

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Fucking Incredible	\$140
Gold	\$75
GSPOT	\$105
Indigo	\$80
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The Legend of the BURMESE See High Times January 2009

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GSPOT High Times Top 10 Strains of 2009

Read about VISC's Induction into The Seed Bank HALL OF FAME in the August 2009 issue of High Times

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Visit the Seed Bank Hall of Fame online.

Back in October 2007, senior cultivation editor Danny Danko founded the HIGH TIMES Seed Bank Hall of Fame to commemorate the pot pioneers and cannabis trailblazers who have made it possible for us to smoke the superb ganja we enjoy today. Without the hard work and diligence of these seed banks, the variety and quality of 21st-century cannabis would be greatly diminished.

Since that initial round of inductions, Danko has opened the venerable doors to the Seed Bank Hall of Fame two more times. Currently, 30 seed companies have been inducted throughout a five-year span.

Now, for the first time ever, the Seed Bank Hall of Fame is available online in its entirety. Learn about the history of cannabis seed collection and the development of seed banks in the US and abroad. Discover the five now-defunct companies initially inducted as Esteemed Seed Bank Pioneers. Then peruse all 30 HIGH TIMES Seed Bank Hall of Fame members, from Reeferman Seeds to the Cali Connection.

Each link in HT's Seed Bank Hall of Fame microsite provides you with a brief history of the company, an overview of the strains that made them famous and, of course, the reasoning behind their induction. You'll also find contact information for each celebrated seed bank so you can do a little research of your own.

Whenever you have a need for seed visit hightimes.com/seedbankhof.

Activist Campus of the Month

This past February, a coalition of Oregon Students for Sensible Drug Policy chapters collaborated to host the 2012 Cannabis Law Reform Conference in Portland. The conference ended with Oregon SSDP officially announcing a full endorsement of the Citizens for Sensible Law Enforcement, End Prohibition Again campaign. Students will be working with the campaign to collect signatures and coordinate the youth vote in order to legalize cannabis in Oregon this November.

Learn more at ssdp.org.

MISSHIGHTIMES.COM



Miss July 2012

NAME: Corrin
 PROFILE: Dizzle
 AGE: 23
 CITY: Tucson, AZ
 OCCUPATION: Frozen yogurt dispenser

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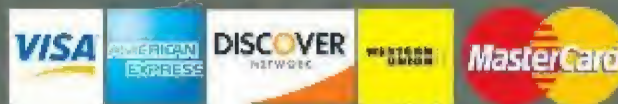
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MUNCHIES

ROBIN'S FREEDOM FRUIT SALAD

Celebrate the Fourth by eating an eighth!

If you picked up the February issue of HIGH TIMES, you'll remember the delicious sweetheart candy recipe by pot chef and activist Robin.

Since the hot, dry summers of Northern Cali inspire tons of amazing creations—from towering plants of medicinal dank to innovative ways of beating the heat—I figured she'd have an awesome concoction for our July issue. And, boy, was I right.

This fruit salad will be the talk of any Fourth of July BBQ for sure. Not only is it a cooling blast of light deliciousness, but it's also rich in antioxidants and vitamins. My favorite part about this recipe, however, is that it's made with cannabis-infused honey. Honey is nature's perfect food: It never goes bad and it always tastes good. While getting the honey for this treat ready, make a few extra jars to lively up your favorite teas—especially when you're sick or battling insomnia. You'll have the sweetest, most potent pantry shelves on the block. *Mary Ought Six*

FREEDOM FRUIT SALAD

- 1 medium or large watermelon
- 2 pints blueberries
- 1 cup cannabis-infused honey
- ½ cup fresh squeezed lime juice
- 2 tsp grated lime peel
- 2 tbsp finely minced mint leaves
- 1 cup raw honey
- ¼ ounce dried cannabis

salad and gently toss to lightly coat. Serve immediately.

Stovetop Method

Pour the honey into a small saucepan and warm over low heat. Once warmed through, add the cannabis and stir to distribute. Leave the honey-cannabis mixture over low (repeat: *low*) heat for 15 to 20 minutes.

Slice the whole watermelon into ½-inch round slices. With a small star-shaped cookie cutter, cut out shapes from each slice. Place the watermelon stars in a large bowl. Next, add the blueberries. Lightly mix, cover and chill before serving. While the salad is chilling, prepare your dressing: In a small bowl, add the cannabis-infused honey (see instructions for making it below) and the lime juice, then whisk until well blended, cover and chill. When ready to serve, add the lime peel and mint leaves to the dressing. Whisk one last time, drizzle over the top of the

If you choose to strain out the herbs before serving or storing, a mesh strainer should work well, as long as you do it while the honey is still warm. To remove as much of the cannabis as possible, strain through cheesecloth, then pour the honey into a canning jar and close tightly. On the other hand, leaving the herbs in the honey means they'll continue to steep, allowing the preparation to get stronger over time. The cannabis can then be strained out at the time of use. *Stones 8-10.*

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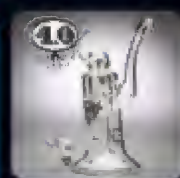


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Keeping your wax on folded scraps of parchment paper is begging for them to be accidentally trashed—and while dishes are cool, they leave your “earl” at the mercy of the elements. Instead, store your concentrates in safety and style with these **UV Concentrate Jars** from 420 Science, which block out air and visible light. Plus they have four different designs and sizes to choose from. Protect those delicious dabs the smart way!

4 Tee Party

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gotdabs.com

The phenomenon of the dab is burning up the world of cannabis; high-THC hits have been proven to be great medicine. So if you like to wear apparel that tells the world, specifically, what your particular pleasures are, this **“got dabs?” T-shirt** is the perfect fit. Available in black, white or pink in a variety of sizes for both men and women. They even have hoodies, too! Be the first stoner on your block to show your true colors.

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MARKET ANALYSIS

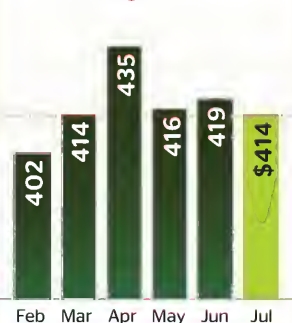
Prices by the ounce

After hitting a five-year low in February, the US Price Index hit a record low of \$307 in July, denoting a buyer's market. The Mids Index, which experienced an increase in submissions in July, finished the month at \$269—its lowest average since January. The Kind and Schwag indices held steady.

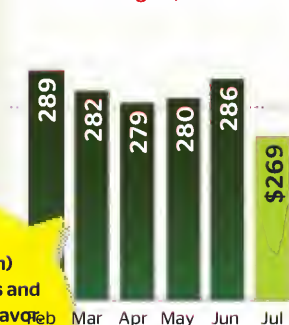
US Price Index
YTD Average: \$327



Kind Index
YTD Average: \$414



Mids Index
YTD Average: \$278



Schwag Index
YTD Average: \$102



(Afghan Kush)
"Nice, tight buds and great high and flavor. Worth the money—this grower knows his stuff."
Madison, WI

TRANS HIGH MARKET QUOTATIONS

STATE	CITY	STRAIN	PRICE
Arizona	Phoenix	Grape Ape	\$320
		Lamb's Bread	310
California	Bakersfield	Kush	290
		Blueberry	250
Colorado	Denver	OG Kush	300
Florida	Ft. Lauderdale	Blue Diesel	340
		Palatka	Sour Kush
Indiana	Kokomo	Purple Cheese	310
		Trainwreck	325
	New Palestine	Sour Diesel	420
		Jack Herer	200
Massachusetts	Allston	Afghan Kush	400
Michigan	Detroit	Sour OG Kush	450
		Granddaddy Urkle	450
	Traverse City	Lemon Skunk	250
Minnesota	Stillwater	Sensi Star	410
		NL #5	400
Nevada	Carson City	Blue Dream	250
		Sour Diesel	200
		Grape Ape	200
New York	New York	Strawberry Cough	400
Ohio	Toledo	Master Kush	325
		Strawberry Cough	300
Oklahoma	Oklahoma City	Trainwreck	325
		Super Silver Haze	280
Oregon	Portland	Purps	170
		Trainwreck	200
		Blue Cheese	125
Pennsylvania	Lancaster	Green Crack	425
		Bubba Kush	425
	Pittsburgh	Super Silver Haze	400
Tennessee	Nashville	White Widow	650
Texas	San Antonio	Chem Dog	450
		Romulan	440
Utah	Ogden	AK-47	225
		Sour Diesel	250
		Durban Poison	200
Virginia	Harrisonburg	Blue Dream	355
		OG Kush	350
Washington	Everett	Sour Diesel	290
		Purple Goo	190
		Blue Cheese	225
		Blueberry	300
Wisconsin	Madison	Afghan Kush	350
		Blue Cheese	325
INTERNATIONAL			
Australia	Melbourne	Jack Herer	\$360
		Chem Dog	400
Canada	Toronto	Sour Diesel	C\$200
		Cinderella 99	180

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(Strawberry Cough)
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New York

4G

08:20 am

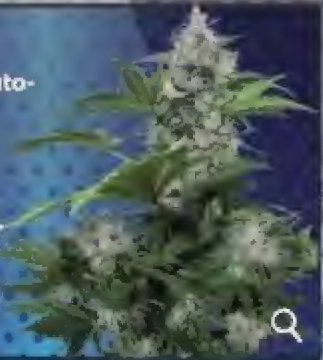
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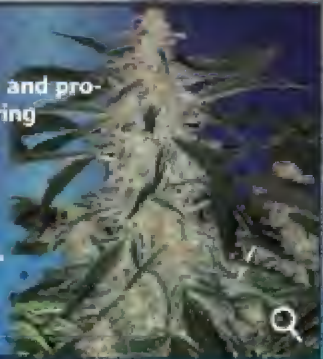
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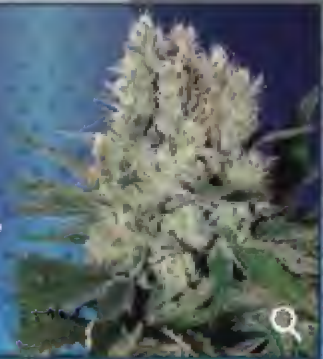
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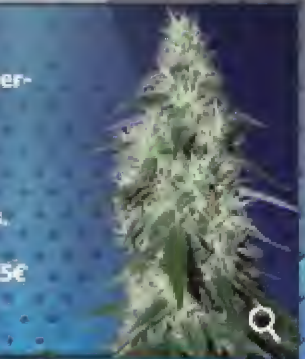
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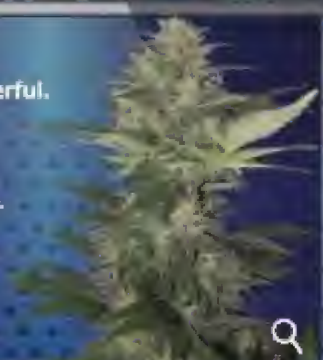
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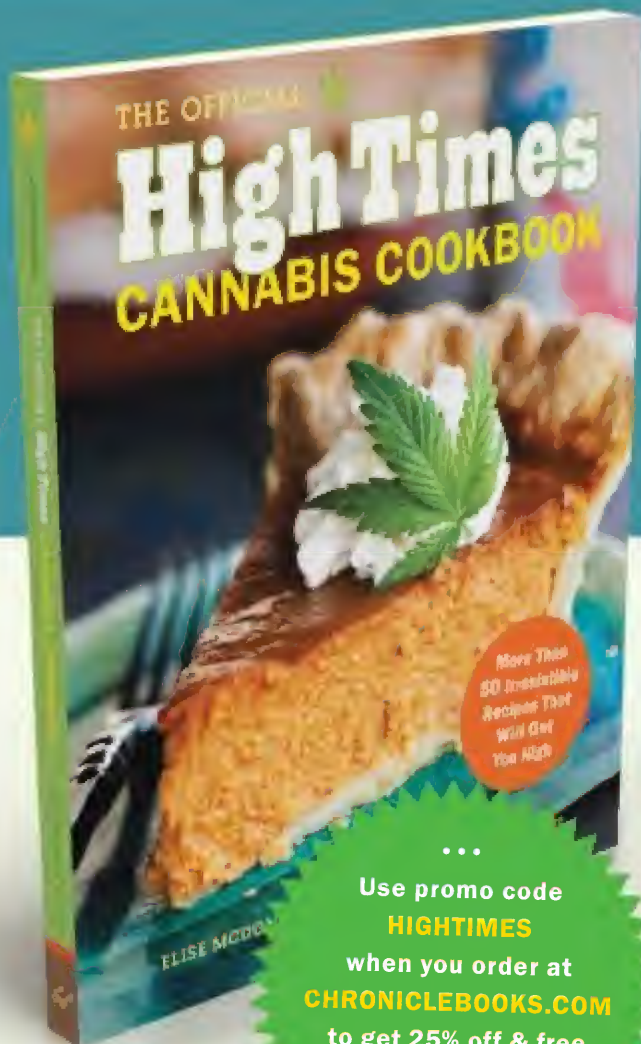
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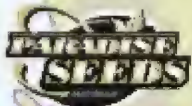
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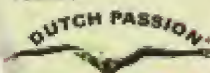


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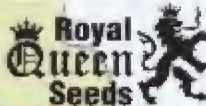


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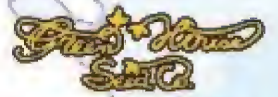
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MATARO BLUE (A)
WHITE DOMINA



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WHITE RHINO
WHITE WIDOW



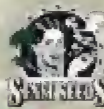
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ARJANS STRAWBERRY HAZE
BIG BANG
BIG BANG (AUTO FLOWER)
BUBBA KUSH
CHEESE
CHEM DOG
DAMN SOUR
DIAMOND GIRL
EXODUS CHEESE
EL NINO
GREEN - 0 - MATIC (AUTO FLOWER)
GREAT WHITE SHARK
HAWAIIAN SNOW
HIMALAYAN GOLD
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K-TRAIN
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KAIA KUSH
KALASHNIKOVA
LEMON SKUNK
LADYBURN 1974
MOBY DICK
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NL HAZE
PUR KUSH
SUPER SILVER HAZE
SUPER LEMON HAZE
TRAINWRECK
THAI
SUPER BUD
SUPER CRITICAL
SUPER CRITICAL (AUTO FLOWER)
WHITE WIDOW
WHITE RHINO

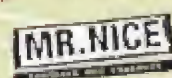
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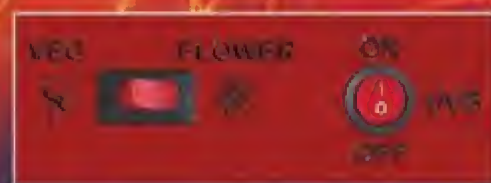
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Story by Greg Green. Photos by Nico Escondido



The art of cloning requires an understanding of plant biology and growth.

Exponential Growth

Consider the following:

A microbiologist looks into a microscope and watches a microorganism subdivide into two microorganisms. The next day the microbiologist looks in, and the two have become four.

A census group informs the nation's government that they need to stop giving incentives to couples to have children, as the population has now tripled beyond the expected results.

An electric guitarist plucks a string on his Gibson, and a Marshall amplifier boosts the signal tenfold so the audience can hear it.

At the summit of K2, a snowflake falls on a ledge. The snowflake rolls into a snowball, which becomes many snowballs tumbling downhill, eventually creating an avalanche.

A server at Google uses an algorithm that doubles the use of processor speed required before passing the process onto a supercomputer mainframe.

All of these events are examples of exponential growth. Cultivators can make use of this principle—a tenet that also operates in the replicating cell biology of a cannabis plant.

The force of exponential growth is so powerful that modern attempts to



It also requires a mother room or genetic preserve.

explain its vastness may have conjured up the urban legend that Albert Einstein once said, “Compound interest is the most powerful force in the universe”. If he did say that, he wouldn't have been far wrong. Our examples cover a range of exponential growth. All growers depend on different forms of exponential growth to get more from the work they put in.

There are lots of differences between exponential growth, compounding and biological reproduction, but the idea remains the same; use what you have to make more. Ten seeds, if they produce

equal male-to-female ratios, can produce tenfold the amount of seeds at the end of a harvest. If the grower reinvests those seeds, they can end up with thousands of seeds the next season. In fact, exponential growth was one of the key factors in the discovery of biological evolution.

Thomas Robert Malthus wrote a book on population dynamics, “An Essay on the Principle of Population.” In that essay, he noted that exponential growth could not go on unchecked forever. For example, if an oak tree produced 10,000 acorn seeds in its lifetime, and each seed



The outcome of propagation via cloning is beautiful uniformity.



Soft fluorescent lighting and Rockwool plugs are common features of a clone nursery.

grew into an oak tree, we could actually calculate when the world would be overpopulated by oak trees. Just take a calculator and multiply the number in the population by whatever number they can produce, and then multiply that number again (or use the exponential formula of e^x on your calculator) and you'll see that a small population can literally overpopulate the planet within a shockingly short period of time.

However, these quantitative facts about reproduction's forms of exponential growth are not reflected by reality. We are not overpopulated by every species that can overpopulate (and they all can). Something is controlling that overpopulation, preventing us from being inundated with oak trees—and the answer can be found in the struggle for survival. Malthus realized that organisms compete for limited resources. So not every acorn will grow into an oak tree, and not every oak tree survives disease, being strangled by vines, or the buzz of a chainsaw. This is one of the key components of natural selection, the main mechanism of biological evolution, which was discovered partly due to knowledge of exponential growth.

Exponential growth is the idea behind

how to get 99 plants in seven days. The 99 plants have to come from somewhere, and the easiest way to get them, apart from buying the clones from someone who has grown them, is by making use of exponentials. So how does one do it? Well, we start with the knowledge of exponential growth, realizing it is half the battle when the goal is to produce a bulk amount of plants in a short amount of time. Next, we need to have a nice mother plant selection. And lastly, we must have good cloning techniques.

We could resort to mass seed planting, but you would not have a uniform crop as you would with clones, unless dealing with a stable strain—and even then, statically male-to-female ratios would likely impact those 99 plants by 50 percent. While using seeds would rule out the seven-day factor we are looking for, you would get a whole new generation of crop to work with, and more importantly, select from. It would make sense to put a whopping grow like this into motion just to be able to select the clone from which you will work. However, for most recreational and medical growers this option isn't realistic, so obtaining a clone to generate a mother from is far better.

Bulk Cloning

There is no doubt that the single best way to clone in bulk is by tissue culture. Plant tissue culture offers a nice incentive, in that it is extremely easy to store 99 plantlets and to start a crop that is virtually guaranteed to be pathogen-free. The trouble is, plant tissue culture takes a very long time, patience and materials to prepare. You could make the 99 ex-plants from just a few leaves, instead of using up several plants. Being able to have 99 ex-plants sitting on a small coffee table will get you 99 clones by the time they are ready to be transplanted. The problem with this is the time setback—but if you can use this method, go for it.

If you want to produce 99 clones from a mother plant by selective cutting, you need to know the strain. Being familiar with a strain is important; if you are not familiar with it, then the strain's classification may help you know what to expect. *Indicas* tend to offer a squat and bushy plant. *Sativas* are tall and lanky with longer internode lengths. However, some outdoor *sativa* strains can be phenomenally bushy. Bushy is generally better for cloning, because bushy means lots of branching, and that is exactly what we

need for selecting 99 clones. If the strain doesn't produce much material from which we can take clones, then we have a few options. We can prune a plant, and force it to produce more branching numbers; this can be done with any strain. It also means keeping a plant in vegetative growth, and extending the vegetative period to allow for the production of new branching. You will need a constant light source for this project; you can literally force a narrow strain to grow into a bush of potential clone sites by working on a plan like this over a period of time, plus you will end up with lots of clone material to practice with as you prune.

Most mother plants selected for cloning are prepared this way, but even the bushiest *indica* won't deliver 99 clones and survive, unless it's a very special plant and you have some pretty advanced cloning skills. If you can get 10 to 12 cuttings per plant, then you will need approximately 10 mother plants. To get those 10 mother plants, one plant will do. In order to prepare for 99 clones, a grower should prepare 10 plants from one, and then the 99 from the 10. Experienced growers will likely be able to reduce these numbers as they become more proficient with making clones. Remember, the more leaves you remove from a mother plant, the greater

the chance is that growth will be stunted or stopped altogether. It depends a lot on the strain and growing conditions. Some mother plants can lose nearly every leaf and still grow, while others get so stunted after losing three quarters of their vegetation that they remain in a quasi-plant limbo, neither dying nor growing.

In some ways, getting 99 clones in seven days has more to do with mother selection and preparation than actual

Do you know what 99 clones look like to most growers? They look like the beginnings of a big green ocean, or a "sea-of-green" (SOG).

cloning. So, for experienced growers who already know their mother strain, simply cloning her out a few times and creating mother stock plants for the generation of 99 in seven days is all the preparation they need. Let's say we are there. We have our raw plant material; how should we go about generating the 99?

Cloning Basics

The question of how to generate 99 plants in a week is always going to be somewhat general because of the different ways growers like to clone and grow. However, if we use our basic concept of exponential growth, we can definitely discover some underlying themes to take into account. For example, I will admit that I have cut plants in the science lab and in the field using two different methods. A pair of scissor-type pruning shears or secateurs is what most people would use in the garden and growroom. Some people also go for the snap-off utility knife or a scalpel. To be honest, knives and scalpels are generally awkward, except for the expensive line of Japanese custom-made ones that will also take your finger off like butter. Shears are better; however, in the science lab they are not often used. We almost always use single-edged razor blades, which we dispose of after we use them. They arrive in long boxes with each blade wrapped in cardboard. They are sterile, and you can dispose of each one in a sharps bin after use.

For home purposes, razor blades are also somewhat cheap and a very clean way to get nice cuts. You can throw one away after you get a few cuttings and then get a new blade for the next few. If you



Thin finger leaves reveal a cloned sativa garden.

want to stick with shears, that's fine, but make sure they are razor sharp and clean, because 99 cuttings do take their toll on even the very best metals. Almost certainly, most growers are going to clone into rockwool, with a few preferring vermiculite, and there are even some hardened soil growers who just love that caveman method of going directly into Mother Nature's finest. Whatever method you choose, you will want some practice and a routine in place before you even consider doing 99 clones, or else you will get a high failure rate.

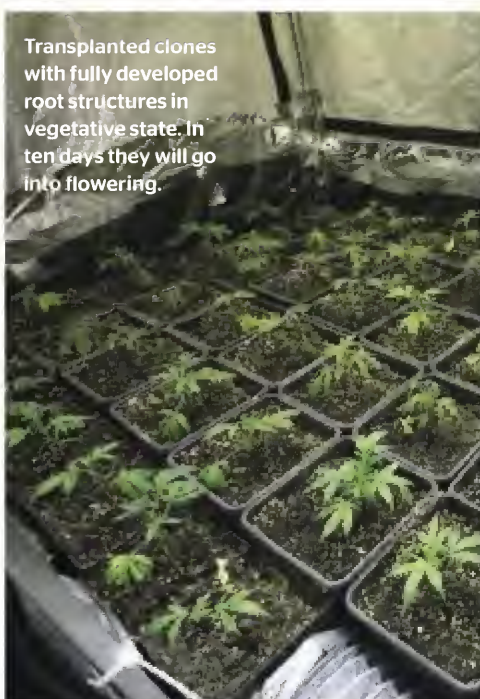
There are several ways to clone, but the simplest process is to take cuttings in groups and then transplant them to their mediums. This is probably the quickest method, but it does expose the cut zones to possible contaminants for longer. If you are under pressure to get your clones done quickly, then doing it in bunches is the best way. If you have time, then doing each clone individually is probably going to get you the best results and the best success rate. This means cutting off the clone and putting it into the medium before getting another clone. Where you leave your blade is also important. The less dirty it gets, the less risk of contamination you run. Also, using a high-quality cloning gel is a very good idea.

We can do a lot with 99 clones. By the time they take root, we can share them with other growers, or we could use these plants to create an even bigger population, using our rule of exponentials. See if you can work out what the exponential growth for 99 clones would be. Do you know what 99 clones look like to most growers? They look like the beginnings of a big green ocean, or a "sea of green" (SOG). If you are looking for big bags full of bud, this is not a bad way to do it.

Nursery Setup

There are several options for starting 99 clones. We can either use natural light or artificial light. Either way, the likelihood is that we will be using large container-sized watering trays to house the cuttings. It is important to keep clones watered, but not overwatered. We want to offer the clones their much needed H₂O, but we do not want to encourage too moist a setting for pathogens to thrive. Watering 99 clones, especially in a SOG, is going to need some form of hosing, either by spraying down the crop or by using a manual or automatic irrigation system.

The idea here is that the clones are not going to move much from where they are,



except to be transplanted into their growing medium. So the growing dimensions of the nursery and vegetative plants can remain the same, except for the transplant into the main vegetative growth medium. Clones are generally grown under fluorescent lights because of their low cost and ability to still produce decent plants. But the real benefits of fluorescent lighting are that they are power efficient, and create very little heat while also supplying a broad spectrum for the babies. They also happen to be heavy in the bluer spectrums, which helps keep plants squat, with good internode stacking during the vegetative phase.

Still, given the size of a 99-plant project, starting with HID lamps right away so that you don't have to change anything is a pretty good idea. However, this

only applies if you plan to use your vegetative space as your flower space. In this case, make sure you keep the tops of the new clones away from direct HID heat by hanging the HID lamps higher than usual, and using lower wattage bulbs (250-600 watts). You could, of course, just keep clones on shelves under fluorescents and inside humidome trays. One conclusion you could draw about creating 99 plants in seven days is that some planning and investment will happen.

Just like a single HID can cover a lot of clones (depending on the intensity of your bulb), getting a plant irrigation system for a clone nursery can help automate the process and make life easier. Drip irrigation in a SOG system works well, but this would only be used if your nursery room is going to also become a veg or flower room. Otherwise, for standard nursery practices involving cuttings becoming rooted clones, the best method for hydration comes via hand-watering in small amounts, multiple times per day, making sure the root zone is always saturated.

In veg and flower we want a drip irrigation system that gets water to those clones, or SOG setup that negates the need for gymnastics in the growroom. Once we do that, we are certainly well on our way to getting 99 plants in seven days. This, of course, is if you are doing SOG. Maybe you'll find other methods more to your liking.

In the end, if we cover the basics of exponential growth, clone selection, clone generation, mass cloning techniques and clone/growing space considerations then we have a plan. Commercial setups often do 99 plants in seven days—but they have access to mother rooms, from which they can select 99 clones whenever they feel like it. Unless you have that sort of system, you will be planning quite differently. However, the payoff will be yield, and quality, in the end. 99 clones of the same strain is basically 99 times the same strain. Medical growers in a small co-op should take serious advantage of these ideas. ✨

**Editor's Note: Wondering why we went with "99" plants for this article and not 100 or even 1,000? Well, we thought we might point out (in an article about cloning, no less) that federally mandated statutes apply when growing 100 cannabis plants (or more) and warrant felony charges and federal sentencing guidelines. That being said, we've never been one to shy away from supporting big grows. If you've got the itch to go big, please, go big!*

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The Marijuana Explosion

The number of Americans who use marijuana continues to increase annually. Never has it been clearer that the failed and destructive War on Pot must come to an immediate end. By Jon Gettman

Marijuana is as popular in the US as it's ever been. A look back over the last 25 years places the War on Pot in perspective: It really hasn't changed a thing. Marijuana is still widely used, and efforts to enforce its prohibition are a wasteful, ineffective drain on the public treasury.

There are many ways to prove this assertion. The purchase of over-the-counter medical pot from a sales-tax-paying dispensary sanctioned by state law is a good case in point—but that can be viewed as a localized exception rather than a representative example of marijuana policy nationwide. Let's examine grassroots political activity at the state level. Many states are now poised to vote on legalization, and more than a dozen have already sanctioned legal access to medical marijuana. Yet in both of these cases, federal prohibition still looms large, and the prevalence of state-level reform, while a significant challenge to federal policy, isn't necessarily the most convincing evaluation of it. Any look at news coverage of marijuana-related issues also provides a critical perspective on prohibition, because it shows that marijuana is still popular enough to warrant significant media attention.

The best way to evaluate public policy,

though, is by its own standards: What does it attempt to do, and is it successful or not? The most convincing evaluation of marijuana prohibition is one that takes the government's own objectives and measures them with government-produced data.

Politicians and other advocates of prohibition always favor a short term approach. The long term perspective, however, exposes the sheer folly of cannabis prohibition.

It's true that marijuana use in the US peaked in 1979, and that the early years of the Reagan presidency saw a steady decline that led true believers to think they had turned the corner in the War on Pot. The big battle in the 1970s was waged against drug paraphernalia stores—a.k.a. headshops—which were viewed as a blatant example of the societal acceptance of marijuana that was partly responsible for the explosion in use. HIGH TIMES, NORML, and the drug paraphernalia industry were the unholy trinity of social forces targeted by a parental anti-drug movement as being responsible for an adolescent marijuana epidemic.

The Drug Warriors succeeded in shutting down the paraphernalia industry, at least superficially, in that era, as state and national legislation made the manufacture and sale of bong, roach

clips and pot pipes illegal. The grassroots nature of parental anti-drug advocacy was seized upon by the Reagan administration, and First Lady Nancy Reagan made the fight against drug use—especially marijuana—the centerpiece of her social advocacy efforts. “Just Say No” became the now-infamous catchphrase, and it was backed by two new Drug War tactics. The first was the Partnership for a Drug-Free America, which was created to produce and secure the placement of anti-drug advertisements in print and broadcast media. The other new tactic was the use of paramilitary programs by the DEA and state police to eradicate the domestic cultivation of marijuana.

During the 1990s, a third new element was introduced: mass arrests for marijuana possession. In those years, the Clinton administration secured funding for new police hires by local law enforcement agencies. Marijuana arrests doubled, reaching historically high levels. Meanwhile, the ad campaign and domestic eradication continued. This three-pronged attack produced sustained pressure on supply and demand, and all three tactics continued to be deployed into the new century.

The results were breathtaking—but not quite in the way the Drug Warriors had hoped. Considering the scope,

funding and objectives of federal policy during the past 25 years, the War on Pot has had every chance and every resource required for success. And yet by any conceivable measure, the War on Pot has failed to achieve a single one of its stated objectives.

During the glory days of the Reagan administration, Congress decided to elevate the management of the Drug War by creating the Office of National Drug Control Policy (ONDCP) and requiring it to produce an annual strategy document listing specific two-year and 10-year goals. The first of these annual documents, which are still the centerpiece of national Drug War strategy, was produced in 1989 by the administration of George H.W. Bush and his director of ONDCP, William Bennett.

In 1989, the ONDCP declared that the goal for federal anti-drug efforts was to achieve a 50 percent decrease in the domestic production of marijuana. This was an ambitious undertaking: In 1981, the Domestic Cannabis Eradication/Suppression Program estimated that domestic marijuana production was about 1,200 metric tons. The following year, however, the Drug Enforcement Administration was amazed to discover that it had eradicated more than 1,600 metric tons. As explained by the DEA: “In 1982, 38 percent more domestic marijuana was eradicated than was previously believed to exist.” And since law enforcement could hardly have seized all of the marijuana being produced in the US that year—the best estimate placed the seizure rate at anywhere from five to 40 percent—this meant the DEA had to increase its estimate of national domestic production substantially.

By the late 1980s, 3,500 metric tons was the official figure for US domestic production. By 2002, a joint task force organized by the DEA estimated that US production had reached 10,000 metric tons. That estimate received international attention, but a few years later the Feds began to distance themselves from it. First, in February 2007, the National Drug Intelligence Center reported: “Combining known eradication statistics with estimates of cannabis not eradicated results in an estimate of total potential domestic cannabis cultivation ranging from 5,650 metric tons to 9,417 metric tons.” After that, the government simply refused to issue any further estimates of domestic cannabis production.

The most basic indicator of the growth in domestic marijuana production,



By any conceivable measure, the War on Pot has failed to achieve a single one of its stated objectives.

however, is the number of plants seized by the government. In 1982, the Domestic Cannabis Eradication/Suppression Program destroyed 2.6 million plants. By 2010, that figure had grown to 9.9 million plants destroyed over 23,622 plots. Meanwhile, in 1983, the DCESP shut down 714 greenhouses; by 2010, that figure had reached 4,721 growrooms.

The government was forced to make grudging concessions in other areas as well. “Average marijuana potency steadily increased over the past 20 years to the highest recorded level in 2008,” the National Drug Intelligence Center admitted in its Domestic Cannabis Cultivation Assessment for 2009, adding that “this continuous yearly increase can be partially attributed to improvements in outdoor and indoor cultivation methods ... The average THC content of tested marijuana samples increased to 10.14 percent in 2008.”

According to the NDIC, “the availability of marijuana remains relatively high, with limited disruption in supply or price... eradication efforts have been successful in removing thousands of pounds of marijuana from the US drug market, but appear to have had limited long-term impact on market supply.”

In other words, domestic marijuana production is at an all-time high. Seizures have increased 300 percent over almost three decades with no effect on price or supply. Going back to the government’s own estimates, domestic cannabis

production has increased from 4.84 million pounds in 1981 to 16.6 million pounds in 2006. So no progress has been made toward the goal of reducing production by half.

Another key goal of the National Drug Control Strategy was to reduce the perceived availability of marijuana. This objective relies on a pretty solid metric: It refers to survey data in which people report how easy they think it is to obtain marijuana if they wanted it. The benchmark here is the percentage of people who report that marijuana is either “easy” or “fairly easy” for them to obtain. In 1992, the 10-year objective was to achieve a “35 percent reduction below the 1991 level in the number of people reporting that ... marijuana [and other drugs] are easy to obtain in their communities.”

Of course, the Drug Warriors could argue that the goal here was to reduce the perceived availability of all illegal drugs, not just pot—but their focus was clearly on marijuana, and their goal to reduce its availability over the long term. Back in 1991, the National Household Survey reported that 62 percent of Americans found marijuana easy to obtain if they wanted it. These days, the primary survey study is called the National Survey on Drug Use and Health; in 2010, it reported that 57 percent of Americans found marijuana easy to obtain.

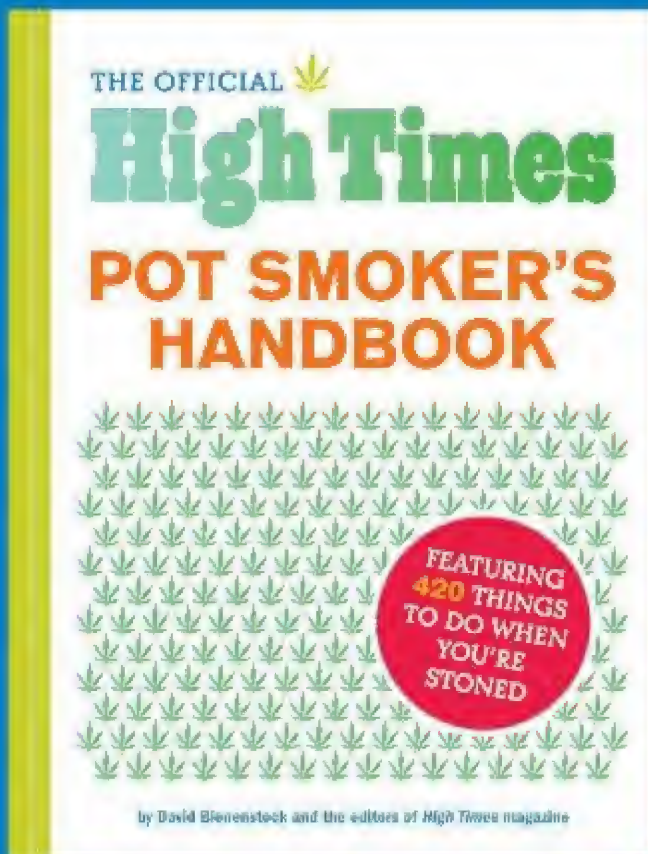
Another survey, Monitoring the Future (MTF), tracks the availability of marijuana among 12th-grade students. In 1993, MTF reported that 83.3 percent of high school seniors found it easy or fairly easy to get; by 2011, the MTF found that the number had dropped to 82.2 percent.

So while the goal was to reduce the perceived availability of pot by 35 percent over 10 years, it had been reduced by only 5 percent two decades later. Clearly, there’s been no significant progress toward that goal, either.

The most important goal of the National Drug Control Strategy, however, was to reduce the actual number of marijuana users in the United States. So how’s that one going?

The goal was to reduce the number of people reporting any pot use in the previous month by 65 percent in the period from 1988 to 2002. And, in all fairness, a technical issue with the national survey must be noted here. In 2002, the procedures for the survey were changed: Individual respondents were now being paid to finish it, resulting in more completed surveys and better data. Unfortunately, this also resulted in a change to

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the national estimates for marijuana use, because there were now about 25 percent more marijuana consumers than were previously believed to exist.

Sound familiar? When it comes to marijuana, we're always finding data that supports the notion that marijuana is more popular than previously thought. So it's a little tricky comparing contemporary data with survey reports from a few decades earlier. Still, the overall trending popularity of pot is pretty clear.

Here's some data on the extent of marijuana use today. According to the 2010 National Survey on Drug Use and Health, 106 million Americans have tried marijuana at least once in their lives: half of everyone ages 18 to 25 (51.5 percent), more than half of everyone ages 26 to 34 (53.7 percent), and about 41 percent of everyone 35 and older.

In 2010, there were 29.4 million annual users of marijuana, including 30 percent of people ages 18 to 25 and 17.6 percent of people ages 26 to 34. There were also 17.7 million monthly users, including 18.7 percent of the 18-to-25 age group and 10.4 percent of the 26-to-34 group. And among 18- to 25-year-olds, 20.9 percent of whites, 17.7 percent of blacks and 14.5 percent of Hispanics use marijuana on at least a monthly basis.

By all accounts, that popularity of pot is growing. According to the National Survey on Drug Use and Health, about 2.1 million people tried marijuana for the first time in every single year of the 1980s. During the '90s, the number of newbies grew to about 2.2 million per year. However, since 2000, the number of people using marijuana for the first time has hit 2.5 million per year, or an average of almost 7,000 per day. In 2009, there were 2,726,964 people trying marijuana for the first time—a record high.

According to the National Household Survey, back in 1992 there were 9.7 million monthly marijuana users. In 2001, that number had climbed to 14.6 million monthly users. Finally, in 2010, the National Survey on Drug Use and Health found 17.7 million monthly users. So, once again, there's been no progress at all toward that initial goal of cutting monthly marijuana use by 65 percent.

Marijuana continues to be popular, and both production and use are on the rise. Moreover, marijuana is enjoyed throughout the US, in some of the most conservative states and regions of the US. Survey

data from 2008 and 2009 report that 7.7 percent of the folks in Utah used marijuana in the past year and 3.6 percent in the past month. In Kansas, the figures are 9.4 percent for the past year and 5 percent for the past month, while in the South, the figures are 9.6 percent for the past year and 5.5 percent for the past month.

Another interesting nugget buried in the national survey data concerns how people acquire their pot. Among past-month users, 57 percent bought their marijuana, as did 45 percent of past-year users. Most of the other users got it for free or because it was shared with them.

But the surveys are also beginning to compile data on how many people grow their own. Among past-month users, 1.9 percent grew their own pot, as did 1.3 percent of annual users (a percentage that includes all of the past-month users). Based on

the survey data, there are now at least 372,670 marijuana growers in the United States.

In 2009, a report on marijuana arrests noted that busts had been increasing dramatically in the US without any discernible impact on use: "Marijuana arrests in the United States increased from 755,200 in 2003 to 872,720 in 2007...Historically, marijuana arrests in the United States increased by 150 percent in the 1990s, rising dramatically from 287,850 in 1991 to 723,627 in 2001...During this time the number of individuals who reported marijuana use on national surveys increased modestly from 19.2 million in 1991 to 21 million in 2001.

"The arrest rate for marijuana offenses (possession and sales combined) in the United States has increased from 260 per 100,000 in 2003 to 290 in 2007. This represents an average annualized increase of 2.19 percent per year during this five-year period. The number of past-year marijuana users in the United States has remained relatively stable during this period, changing from 25.5 million annual users in 2003 to 25.2 million annual users in 2007."

Since that report, the marijuana arrest rate has continued to climb—it's now over 800,000 annually—while the number of annual users has also increased, from 25 million in 2007 to 29 million in 2010. So despite these endless arrests and the decades of suppressive prohibition policies, pot is as popular as it's ever been.

The Feds lost the War on Pot a long time ago. They're just afraid to admit it. 🌿

Marijuana continues to be popular, and both production and use are on the rise.

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Seeds:

The Beginning of the Bud

All plants originate from a seed, and growing out cannabis plants from seeds provides benefits to both the grower and the gene pool. Find out why and how to plant, choose and harvest your own beans for better buds.

Story by Kym Kemp. Photos by Lochfoot



The Strain in Embryo

Swollen with promise, marijuana seeds nestled amid sticky resin pods are greeted with delight by knowledgeable growers—and with something less than delight by those who didn't plan for their presence. Seeds can ruin a crop if they appear accidentally, but when they're bred on purpose, they offer the grower stable strains, healthier plants, and the possibility to make his or her mark in the marijuana world by creating a superior bud.

Matt of Humboldt Exchange, also a member of the Emerald Growers Association, has been growing his own seeds for a while now. In the last few years, he's branched out: "We've been putting seeds out to those locals who want them," he says.

According to Matt, people who use seeds often enjoy growing more naturally. "The attitude is, they're doing it the real way. They're really proud to be growing from seed." And there are many practical reasons as well. According to Matt, clones—while offering some distinct advantages—can "begin to mutate" over

generations when stressed out. He also feels that strains can change in unfavorable ways. In fact, some growers worry that clones lose potency the further they're descended from the mother plant.

Some growers also feel that the mother plants themselves begin to degenerate over time, affecting the cuttings taken from them. Tea (a pseudonym) is a member of the Tea House Collective and believes that, as "the mother plant gets older and older, the genetics of the clones get worse and worse."

On the other hand, creating seeds allows for stability, Matt insists: "I know people who have been working with the same strain for 20 or 30 years." These strains, he argues, retain their flavor and potency in ways that cloned strains simply don't.

Beyond stability, one of the biggest reasons that seed growers give for their choice of method is healthier plants. "A cloned plant," says Tea, "might be sick, might carry pests in with it." Clones are only as good as the grower who provides them. In fact, one of the largest sources of spider mite and other pest

A single Kreeper Kush
bean emerges from a
seed bract covered in
glandular trichomes.





Plants grown from seeds exhibit vigor that clones can sometimes lack.

contaminations is transporting clones from one place to another—whereas seeds bring only their genetics with them. In addition, Tea believes that “the importance of seeds is the ability to evolve as disease evolves. Every generation develops new reactions to disease,” with the healthiest surviving and passing on that genetic resistance to their offspring.

Breeding Seeds

For outdoor gardeners, breeding their own plants is essential, both Tea and Matt agree: Each area has its own climate, and microclimates exist in every area as well. Thus, finding a plant that can thrive where you live is essential. However, if you have your heart set on a strain that doesn’t seem to work well in your area at first, it can often be acclimatized by breeding the hardiest survivors of each season until it stabilizes.

“It will take several growing seasons to be acclimatized to an area,” Matt says. “I started with a bunch of seeds from Amsterdam. One of my big questions was: Will these do well in Humboldt County? About a quarter of them came out fully acclimatized—like they were grown here—but those that didn’t we just worked with for another couple of years, and then they settled in and

we were able to start getting some good results from them.” He now has a variety of strains to work with based on those original seeds.

Living Proof

Another reason to grow from seed is verifying the genetics of each plant. Matt got involved with seeds because, as he explains, “I’m kind of a control freak—I really couldn’t rely on anyone else. I really wanted to know what I was dealing with.” He found that unscrupulous or inexperienced seed or clone providers didn’t always work with pure genetics. Sometimes, what was being sold as a pure Trainwreck might be a cross or even another strain altogether. And for medical marijuana patients who have discovered the efficacy of a particular strain for their specific condition, seed breeding offers the best hope of getting exactly what they need.

Plants started from seed often seem larger and more vibrant. Many growers insist that such plants also produce a higher yield and have more potency than clones. Whether or not these claims are valid, what certainly is true is that seeds can safely be stored for up to three years before planting, which makes using them more convenient in many circumstances.

Your Very Own Strain

Growers being growers, however, another reason that many gave for using seeds was their desire to make their mark in the world by creating a strain that reflected their particular tastes. As Matt explained with a grin: “I wanted to develop strains, and I knew that seeds would be the best way. That’s what *really* got me excited—being able to take something that I really liked and mix it with something else I really like.”

That challenge of breeding is more exciting for some growers and, Tea argues, better for the end product as well, since cloning “is unlikely to improve a strain.” He also objects to cloning for ecological reasons, since it’s conducted most often under grow lights powered by some form of fossil fuel. The Tea House Collective, which encourages being environmentally conscious, allows cloning as an acceptable technique but doesn’t believe it offers “the highest level” of sustainability. Tea himself prefers to minimize his fossil fuel use, and thus he makes it a point to grow from seed to harvest outdoors under the sun.

The process of creating strains, though it doesn’t require an advanced degree in botany, does take experience and some practical knowledge. “I don’t claim to be



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a scientist,” says Matt. “I just know how genetics in the field work.” As a result of their efforts, both he and Tea have developed strains that can’t be found anywhere else.

Bright Lights is one strain that Tea is particularly proud of. “I had a cross that a friend gave me—out of every 100 seeds, one would throw a purple stem.” The bud from those plants was tasty and potent, so he began breeding for that characteristic. Eventually, one of those purple-stemmed plants developed magenta hairs and, he says proudly, “It won ‘Best Joint’ on our boys’ backpacking trip that I do every year with a group of breeders.”

Feeling inspired yet? If so, then you too can begin to develop new strains by growing seeds from your very own plants. To help get you started, we asked these two longtime growers to walk us through the process step by step, and then we wrote it all down for you.

One note of caution, though: Be careful choosing the plants you decide to cross. As Tea points out, “In the early days of pot growing in southern Humboldt, the strains were really good, but the quality went down in the ‘80s because everyone crossed everything. This muddled the flavors.” For best results, start out breeding plants within strains—an OG Kush with another OG Kush, for example. Then, after you get the hang of it, you can start experimenting.

If you’ve never done this before, get starter seeds from a trusted source or buy online (also from a recommended source). You can also purchase a male plant from a breeder to pollinate your females. And always remember to use a good labeling system or else your breeding stock will get mixed up.

Ready? Then here we go.

Choosing the Seeds

Get rid of any seeds that are soft and white, which are indications of immaturity. Many growers look for a dark color with intense striping. Matt adds that “sometimes some small ones have the darkest color and seem to me to be really rich,” so he includes those as well.

Cracking the Seeds

If you’re growing outdoors, the time you start your seeds is very important: Start them too late and your plants never catch up; start them too early and you’ll waste time and money. Most outdoor growers begin around the first week in March; indoor growers have more flexibility.



These seedlings are developing their second and third sets of leaves.

The number of seeds you start will vary depending on how much you plan to grow, but remember: While 50 percent to 60 percent of the resulting plants will be female, you’ll still need to cull the weakest in order to get the best growing stock.

To germinate your seeds, place them in a jar of water in a dark, warm environment (between 75°F and 85°F). Typically, 95 percent will have germinated within three days, which means the seed cracks open and a little white root emerges. Whichever ones haven’t germinated by this point should just be thrown away.

Planting the Seeds

When the tiny root is protruding about 1/8th of an inch, stick the seed in a 4-inch pot filled with completely

saturated soil. When the soil dries to the extent that the pot feels about 60 percent lighter, water it again gently. Use plain water with no nutrients (people tend to over-water and over-fertilize). Typically, you won’t see the plant emerge from the soil for about 10 days.

Growing the Seedlings

When the stalk is the thickness of a toothpick and has two sets of leaves (generally about 14 days), begin feeding the plant. This should be a super-diluted feeding—approximately 15 percent of normal nutrient strength. Also, as soon as the roots show at the bottom of the 4-inch pot, bump the plant up to a 1-gallon pot. Again, saturate the soil 100 percent before transplanting, and don’t water it again until the pot feels 60

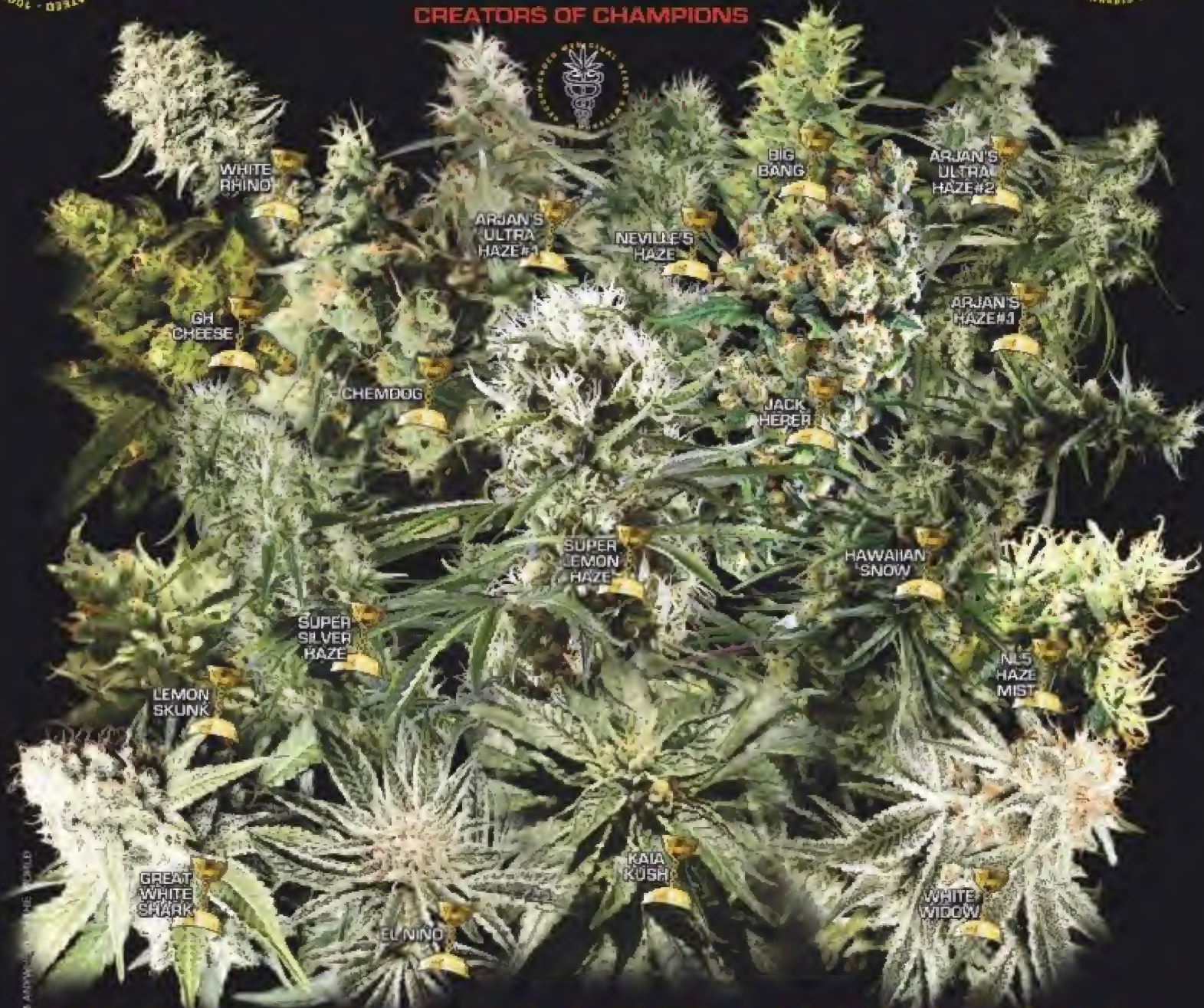
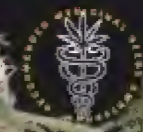


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percent lighter. At this point, you can water the plant more frequently and increase the nutrients slowly.

Sometimes the plants will show their sex before they need to be bumped to 2-gallon pots—but if roots start showing at the bottom, bump them up again.

Sexing the Plants

On average, you're going to be able to sex your plants (i.e., determine whether they're male or female) around May 1. You'll be looking for white hairs on the females, while the males drop a sac. Tag and date any plants you plan to keep.

Choosing the Male

Typically, the males need to be chosen before they reach full maturity. (Conserving grow space is a major reason to cull.) Choose those plants with the healthiest, largest male flower development; you should also rub the stalk for aroma and then select for pungency. After making your choices, dispose of the rest carefully.

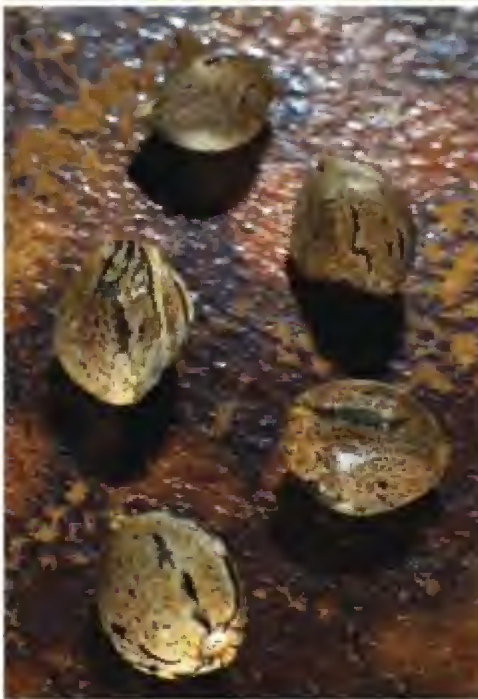
At this point, the males will need to be kept isolated from the females to prevent them from seeding the whole crop. A small plastic greenhouse will work outdoors, while another completely sealed room works indoors. Keep in mind that your chosen area for the male plants must have a little (but not too much) ventilation. This is to keep the males from mixing their pollen, since for most people, maintaining different rooms for each strain is impractical.

Collecting Pollen

Examine the male plants daily. When their sacs look heavy, start taking cuttings. Put the cuttings in jars containing sugar water and then place the jars on top of parchment paper. After five to seven days, the pods will open and drop their pollen straight down. Collect the pollen and put it in small brown paper bags (also remembering to label them). At this point, the pollen can be put in the refrigerator; the paper bag keeps moisture from collecting and damaging it.

Choosing the Female

Make sure all of your females are labeled correctly. Matt pollinates every single one, because “you don't know until the plant is completely mature and ready for harvest what you're actually looking at. And even then you don't know, because you still have the taste test, you still have the potency test, and you still have the quantity produced to figure out—all that adds up to overall quality.”



Tea, on the other hand, feels that this method is too complicated. Instead, he looks for the qualities that he wants in the female plant—such as crystals, smell, and overall health and form—and then chooses just a few to breed.

Choosing When to Pollinate

If you know your plants' flowering times, you should pollinate them when the buds are about 50 percent of their full size. If you don't, pollinate in mid-August.

Pollinating Females

When it's time to pollinate, choose a branch low on the plant—you don't want to seed your best colas. Cover 10 to 12 inches of the chosen female cola with the brown paper bag of male pollen, then create a seal and shake it gently. (An alternate method that Tea uses is to “paint” the bud with a paintbrush dipped in pollen.) You can tell if you have a good seeding because, the next day, all of the hairs will have shriveled back.

Harvesting Seeds

Harvest when 90 percent of the seeds are dark and hard. To do this, simply cut and dry the seeded cola, then crumble the bud over a cookie sheet, tilt and sift: The leafy material will stay up high, while the seeds roll down the pan.

Choosing Seeds for Next Year

Now comes the fun part: the taste test. This helps you choose your plants for next year. As Matt explains, “Typically, our trimmers will be tasting the strains as they process them.” He also recommends lab testing for THC and CBD. “We'll get a general feel, and the lab tests give us a scientific result.” The cost is about \$50 to \$200 per sample, he says. As for the results: “Are they always completely accurate? No—they change from testing method to testing method. You just have to feel that out and try to find the lab that's a fit for you.”

Most small growers, will skip the lab tests and go for the results they've experienced themselves, picking strains based on effect, taste and any other qualities they might want. Once you've made your choices, simply store the seeds in a dark, dry place until you're ready to plant the next harvest. ✨

From top: This male plant in its prime is ready to pollinate a female; ripe seeds are dark-colored with striping; sprouted seeds show taproots and are ready to plant.

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Posing in the front row are the Bickett brothers, associates of the Cornbread Mafia and its leader Johnny Boone.

Inside the Cornb

Back in the 1980s, when Ronald and Nancy Reagan were pushing the War on Drugs and “Just Say No,” a group of good ol’ boys down in Kentucky were growing multi-ton loads of high-quality *indica* in the blazing Southern sun. In his new book, *The Cornbread Mafia: A Homegrown Syndicate’s Code of Silence and the Biggest Marijuana Bust in American History*, author James Higdon gets the inside story of this band of outlaws straight from their fugitive leader, Johnny Boone.

30 Tons

In October of 1987, Johnny Boone and about 20 of his fellow Kentuckians were minding their own business on a farm in rural Minnesota, hurriedly trying to bring in an eight-acre crop of outdoor marijuana, when a truck pulling a horse trailer set off the perimeter alarm system. Everybody froze as one of the workers stuck his head through a flap of black plastic they were using to cover the windows in the barn.

“It’s just a truck,” he said, which made everyone relax. The crew was expecting reinforcements from Kentucky, anyway.

Then, just as the worker was about to lower the flap and pick up his rose clippers to continue manicuring the stack of marijuana in front of him, he saw 10 well-armed police officers spring from

the rear of the horse trailer—a technique the cops referred to as the “Trojan horse.”

“It’s a bust!” he shouted, and everyone dropped their clippers and burst out of the back of the barn, straight into a Minnesota snowstorm. In the end, all of the Kentuckians would be caught, and Johnny Boone would be sentenced to 20 years for his role as the mastermind behind a farm that was just days away from bringing eight acres of pot to market, which the cops estimated weighed in at 90 tons.

It was a bust that stunned the DEA and launched a federal task force to take down this ring of Kentucky growers. In June 1989, federal prosecutors in Louisville held a press conference to reveal the extent of this homegrown network. They connected the arrests of 70 Kentuckians on 30 farms in 10 states with 200 tons of pot, calling

it the “biggest domestic marijuana syndicate in American history,” naming Johnny Boone as one of its ringleaders, and giving the group a name that would stick for good: the Cornbread Mafia.

But the Cornbread Mafia’s story actually begins in the 1960s, before Kentucky knew anything about marijuana. Johnny Boone graduated high school in 1961 with the distinction of being the only Kentucky student ever to win first place in the state’s 4-H contest in two separate categories—tobacco growing one year and sheep breeding the next. After high school, he started farming, breeding cattle and getting in trouble with the law for “sweating barrels” (an old moonshiner’s trick that pulls a few gallons of whiskey out of used whiskey barrels). By 1970, Boone had combined his various



Don't Walk, Run

So what was Johnny Boone, a Kentuckian born and bred, doing on a frosty Minnesota farm nearer to Fargo, ND, than anywhere else? Because he and his fellow Cornbread growers had been chased from their native habitat by the Kentucky State Police and its helicopter-based air war.

The first time that state police detectives flew a helicopter to look for pot in Kentucky, it was in 1980, and the first place they flew was Marion County, home of the Maker's Mark bourbon distillery and the headquarters of the Cornbread Mafia.

In one weekend, the state police found 45 acres of pot growing in Marion County.

In one weekend, the state police found 45 acres of pot growing in Marion County. Forty-five acres. Given that in Minnesota, an eight-acre farm produced 30 tons of marketable marijuana, that 45 acres would add up to 168.75 marketable tons, or 5.4 million ounces, or 153.1 million one-gram joints (triple that if you use the cops' weight).

So, chased from the cozy confines of Marion County by the state police air war, growers like Johnny Boone ran as far away from the helicopters as they could—to places like the remote Minnesota farm where he was caught seven years later. Also, when Boone ran from Kentucky, he took with him the seeds of a Russian *indica* strain that he'd crossbred with a native *sativa* left over from the World War II-era "Hemp for Victory" effort.

His Minnesota crop was looking gorgeous and profitable in mid-September. Then, an "Alberta clipper" blew in from the north—a fast-moving, weeklong winter storm, this one arriving a few months early. The clipper killed off the corn that Boone had planted as camouflage around his eight acres of pot, and it also completely encased his marijuana plants in ice, so that their buds looked like diamonds as long as baseball bats.

"We had pictures of it...of the goddamn frost and snow on it," Boone said when remembering that lost Minnesota crop. "Every son of a bitch who worked

read Mafia

skills—farming, genetic selection and lawbreaking—into one singular career: growing massive amounts of chronic.

How chronic? There are endless stories of the sudden explosion of genetically superior Kentucky marijuana throughout the 1980s. These days, smokers even remember *complaining* of its extreme quality: "It was almost *too good*, you know?" one Kentucky smoker said. "Everybody was laying around, couldn't hardly move, and banana buds everywhere for nothing."

So how much of this dank outdoor bud was being grown by the Cornbread crew?

When Boone was busted on that 355-acre Minnesota farm, the police found him growing two patches of pot, each one bigger than four football fields. The cops said it added up to 90 tons, but what did they know? That was just their best guess, a number they arrived at by weighing one dump-truck load and then multiplying that number by 62, which is the number of loads it took to clear the barns and outbuildings of the pot that Boone and his workers had already cut and begun to cure when the raiding

party arrived. But so much remained standing in the fields that the cops just doubled that 62 times the number and ended up with 90 tons. The leader of the raiding party, under oath, described the amount of pot they found Boone and his colleagues growing as "inconceivable"—and he wasn't just quoting *The Princess Bride*.

As mentioned earlier, the bust of Boone's farm in Minnesota triggered a DEA investigation that ended up finding 30 such farms in 10 states, for a total of 200 tons. But consider this: The crop on those other 29 farms totaled 110 tons combined, while this one crop on Boone's one farm was 90 tons by itself. And sure, that's not the marketable weight—it includes leaves, sticks, stalks, roots, dirt and far more water weight than manicured bud. So if you're doing the growers' math in your head, give Boone credit for a third of that weight: not 90 tons, merely 30 tons. Thirty tons. That's 60,000 pounds, which is 960,000 ounces, which—at one gram per joint—is 27.22 million joints. Like the cop said: *inconceivable*.

Police haul away a Marion County pot field to be burned in front of TV cameras.



up there could tell you: It froze and snowed the same night.” It was only September 20, he added, “and the mother-fucker—just like that tree standing there green—the fucking pot standing there *white*. It had the frost and the freeze all on it at the same time. And then the sun came out, just like wintertime here—*drip-drip-drip*, it started melting off. A little thin coat of ice on every fucking plant. Every boy busted with me could tell you the same story. I got every boy out of bed. I said, ‘Come out here!’ [It was] 4:30 in the morning.”

“It’s all dead!” [one of his workers said.]

“I said, ‘What?!’

“He said, ‘It’s all dead!’

“I said, ‘It *can’t* be dead.’

“He said, ‘It’s dead.’

“I said, ‘If it’s dead, we’re going to harvest it all today. Whatever’s out there, we’re going to get it.’ So we went out there, and it blew my shit away, man—blew my shit *away*.”

What turned out to be especially mind-blowing for Boone was that, although the plants were totally encased in ice, many of them *didn’t* die. Instead, the “strong ones lived,” he said, and the females were shocked into even greater levels of resin production—a trait that their Russian homeland had naturally selected for.

The raiding police officers would later pose for photographs of themselves planting an American flag atop a 10-foot pile of Boone’s Minnesota ganja.

Not only did the Russian ladies survive, but this crop was shaping up to be one of the finest marijuana harvests in Johnny Boone’s career, which by 1987 would stretch back at least 17 years.

“If we could have saved the seed...” he later told me regretfully. “Because there were some places where a male had pollinated maybe 50 females around it...happens in any big field. If we could have got the crop through and saved the seed—think about them seeds! Them sons of bitches were probably ready for northern Canada.”

As it happened, however, none of the seeds would be saved. Instead, they wound up at the bottom of one of 62 dump-truck loads headed for the city dump, after agents from the Minnesota Bureau of Criminal Apprehension spotted the eight acres from the air once the Alberta clipper killed off everything else around them.

The raiding police officers would later pose for photographs of themselves planting an American flag atop a 10-foot pile of Boone’s Minnesota ganja, almost like they were US Marines on Mount

Suribachi at Iwo Jima.

The bust happened towards the end of October 1987, and Boone immediately began serving what would turn out to be a 20-year prison sentence. The only silver lining in the whole ordeal was that he’d been busted just days before the November 1 deadline for the start of President Ronald Reagan’s signature “minimum sentencing guidelines” program. If Boone had been arrested just seven days later, he would have been forced to serve almost 90 percent of his sentence—but since it was still late October, he was able to return home in 2001, where he stayed for almost seven years of freedom before becoming the fugitive that he is today.

Let’s Do It Again

When he returned to his Kentucky farm in 2001, Boone certainly knew that one more federal bust would trigger President Bill Clinton’s 1996 “three strikes” law, which would send him to prison for a mandatory life sentence without parole. That’s because the Minnesota bust in ’87 was actually Boone’s second



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federal conviction; his first was a 1982 deal when the FBI caught him meeting an airplane in Louisville coming in from Belize with 550 pounds of jungle bud.

But even this existential threat couldn't stop Johnny Boone from doing what he loved best: growing his personal strain of *indica*, originally bred for hash production, with crystallized buds as hard as rock candy. So, seven years after he'd been granted his freedom, the state/federal drug task force flew a rare helicopter mission over Boone's farm in late May 2008—hardly the usual time for helicopter flyovers, which generally begin in late summer—and spotted what appeared to be a marijuana crop growing there. And with that Minnesota past as prologue, the state and federal agents quickly assembled a raiding party, which ended up seizing two flatbed wagons covered with 2,421 flowerpots (a young clone taking root in each one) as well as 200 pounds of processed pot. The cops valued the entire haul at "over \$5 million." What they didn't find, however, was Johnny Boone.

Knowing that his capture was essentially a death sentence—a one-way ticket to the "Life 4 Pot" Club—the 67-year-old Boone became a fugitive, and the US

Corn plants couldn't hide this pot patch.



Eventually, the marshals came to realize that Marion County was no ordinary place, and that Johnny Boone was no ordinary fugitive.

Marshals Service came out to hunt him.

Usually, when the marshals track a fugitive, it doesn't take long for someone to give him up. Every fugitive has somebody that doesn't like him, the marshals reasoned, so all you have to do is find that person. But after they interviewed everyone they could think of with

no results, they decided to set up roadblocks on the rural highways of Marion County, where, nine times out of 10, the drivers told them that they wouldn't say where Boone was even if they did know.

Eventually, the marshals came to realize that Marion County was no ordinary place, and that Johnny Boone was no

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ordinary fugitive. Though he's been on the run now for more than four years, the US government hasn't given up on finding him, but they have zero active leads in the case. Boone has successfully gone *deep* underground, eluding the police work of Deputy US Marshal Jimmy Habib and the prosecutorial prowess of Assistant US Attorney Larry Fentress (who declined to comment on Boone for this story, as he cannot talk about open cases).

Kentucky Karma

One thing that's important to take away from this story is the code of honor that developed among the Kentucky growers who became known as the Cornbread Mafia. Of the 70 that were busted between 1985 and 1989, not a single one sang to the Feds in exchange for a lesser sentence. In fact, while he was in prison for the Minnesota deal, Johnny Boone learned that his fellow inmates of Italian heritage had a word for this oath of silence, *omerta*, which he later had tattooed across his back.

Another important fact about the Cornbread Mafia is that those who dealt exclusively with marijuana and didn't fool around with cocaine or other hard drugs stood a much greater chance of not



The Feds sure can screw up a harvest.

getting caught. The ones that went all Tony Montana and exchanged pounds of green for kilos of white didn't do so well. More than 20 years later, some are still in prison; others have gone back there; and still others are gone for good. Meanwhile, there's a whole bunch of Cornbread types

who stuck to the green and left the white alone, and they're doing just fine these days, presumably rewarded by their belief in karma. Because, even though all of these growers were raised Catholic in rural Kentucky, there exists among them a strong belief in this Hindu notion that doing the right thing always leads to having the right thing done to you in return.

Without this sense that one's virtue is rewarded, the Cornbread world would have quickly devolved into everyone trying to screw everyone else. And while that did happen on occasion, it was surprisingly rare for an organization that sent literally tons of high-grade outdoor sinsemilla coast to coast every year for the better part of two decades.

Those are the three Cornbread lessons that HIGH TIMES readers should apply to their own lives: 1) Karma is real; 2) Don't mess with coke; and 3) Don't be a rat. Growers who follow those rules can say they're doing it the Johnny Boone way. ✨

Released into the wild by Lyons Press on 4/20, The Cornbread Mafia: A Homegrown Syndicate's Code of Silence and the Biggest Marijuana Bust in American History is currently available in hardcover in bookstores everywhere and as an e-book online.

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Beat the Heat

21 Hot Grow Tips for Cool Growrooms

By Danny Danko. Photos by Nico Escondido



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hot air.

“**H**ot Fun in the Summertime” might work for Sly and the Family Stone, but if you’re growing pot, high temps are simply not an option. Here are 21 ways to control the heat, thus keeping the heat from controlling you.

Use the Right Fan

Fans are rated by CFM (cubic feet per minute), which refers to how much air a fan will remove in 60 seconds at full strength. Measure your grow space to determine its total volume in cubic feet (i.e., length x width x height), then get an outtake fan capable of moving that air out in three to five minutes or less. For example, a 2,000-cubic-foot room needs, at minimum, a 400-CFM fan to push out the hot, spent air.

Thermometers and Hygrometers

These are crucial because you must keep track of temperature and humidity at all times and do your absolute best to keep the daytime temps around 75°F tops and the humidity as close to 50% as possible. The best digital versions of these tools keep track of highs and lows and can also alert you when the conditions are less than optimal so you can take the proper measures to correct them.

Running Lights at Night

Setting the timer so that your plants’ 12 hours of “daylight” in the flowering stage happen at night can keep your room cooler and, in some places, help you save on energy costs as well. Plus, running your lights from 6 p.m. to 6 a.m. (or 8 p.m. to 8 a.m., etc.) will still give you plenty of time to work in the growroom.

Remote Ballasts

Ballasts for high-intensity discharge (HID) lighting give off a bunch of heat as they convert high-voltage electricity to a lower level. Even digital versions can raise a growroom’s temps several degrees, so try to keep all of the ballasts in a separate room (thus “remote”). If the ballasts must be in your growing space, hang them up high, close to your outtake fan and carbon-filtration unit.

Air-Cooled Lighting

Using special hoods with vents for intake and exhaust can



Cooler Lights
Air-cooled grow lighting removes heat directly at its source.

greatly reduce the amount of heat put out by your bulbs (especially if they're right above sensitive plant tops). Several such lights can be strung inline at once for even better efficiency. Keep in mind, however, that the glass lenses reduce the amount of lumens reaching your plants by about 10 percent, so be sure to

lower the lights accordingly.

Central Air

If you're lucky enough (or smart enough) to have central air conditioning built into your house or apartment, take full advantage of it by simply setting the temperature in your grow area and then letting the central air

unit maintain the proper levels at all times. However, larger grow facilities will require heavy-duty, industrial-sized units capable of providing over 100,000 BTUs (British thermal units) of cooling.

Circulation

Heat builds up very quickly in dead spots that fresh air doesn't

reach. Several oscillating fans in your room will create enough of a breeze to spread the cooler air around and also move plant leaves that can use up CO₂ at surface levels quickly. Not only is this kind of air agitation good for your plants' growth, but it has the added benefit of making them stronger as well.



Air Conditioning

Whether you invest in a window or wall unit, a stand alone portable or the pricier split air conditioners, it's very important to purchase the right one for your space. Remember that you're not just striving to cool the air, but also to counter the heat buildup created by bulbs, ballasts, pumps, CO₂ generators and other assorted electronics.

A well-insulated room is much easier to keep cool than one without insulation of any kind.

Water-Cooled Lighting

These days, some grow lights even use chilled water to stay cool. These lights require a separate reservoir and take advantage of the water's ability to conduct cold temperatures

quickly and efficiently. Some people might cringe at the thought of water being so close to their bulbs, but the units are actually quite safe when used properly.



What Condition
Air conditioning units bring temperatures down when properly sized.



Heat Rises

Remove warm, spent air from the highest point in your growroom.

Insulate Properly

A well-insulated room is much easier to keep cool than one without insulation of any kind. An attic space that's exposed to the roof is much more vulnerable to heat and cold spikes due to its proximity to the outside world. By insulating your grow space properly, you'll gain better environmental control.

Reservoir Chiller

Hydro growers learn quickly that warm temps (exceeding 80°F) exacerbated by heat from water pumps in the nutrient reservoir can lead to root rot and issues with oxygen levels that can harm or even kill your pot plants. Keeping the nutrient solution cool by means of a plug-in chiller solves this issue altogether.

Frozen Water Bottle

One easy, short-term way to cool a reservoir is to freeze a 2- or 3-liter plastic bottle of water and then drop it into your tank. The water temps will slowly drop to more manageable levels, but keep in mind that they'll creep up again once the ice has melted.

CO₂ Enrichment

While CO₂ generators produce additional heat, the tanks filled with cold gas cool the room. Plants that receive CO₂ enrichment (up to 1500 PPM, or parts per million) can live in hotter environments and thrive. Rooms with CO₂ gas added regularly can produce great pot even at 85°F.

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Portable Swamp Coolers (above)

If you can connect to a water supply, then a portable swamp cooler may be the answer to your heat-reduction needs. These units use evaporation to your advantage by absorbing moisture and outputting cooler wet air without the use of chlorofluorocarbons like Freon.

Digital Cooling Humidifier

One inexpensive way to reduce heat and add moisture is a digital cooling humidifier. These units utilize tanks that you refill



Straight, No Chase
Avoiding bends in tubing greatly increases their efficiency.

with water to put out a cooling mist that will help you reduce your energy costs. They're available in many different sizes and applications for use in almost any growroom.

Less Hose, Less Resistance

Keep the ducting in your growroom straight and down to a minimum. Any bends in the venting tubes will slow down air expulsion

considerably and thereby reduce the efficiency of fans and filters, since CFM rates drop sharply with any resistance or obstructions along the way. Insulating the ducting helps as well.

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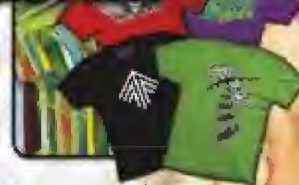
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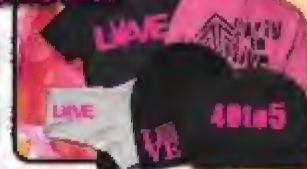
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Reservoir Placement

Putting your reservoir tank on a concrete floor will keep the nutrient solution much cooler. Water conducts cold as well as heat, so a reservoir placed directly on a basement floor will substantially reduce your water-cooling costs. Alternately, you should raise the reservoir and add an aquarium heater if the solution gets too cold (below 60°F).

White Tubes

Use white, opaque tubing and hoses instead of black, since the darker-colored tubing absorbs more light (and thus more heat). Hydro shops and most nurseries sell high-quality white tubing and hoses that will deflect heat instead of letting it in. Also, never use clear tubing for any purpose.

Detect Hot Spots

Get yourself an infrared laser thermometer to check for hot spots or thermal leaks. For less than \$50, you can point the “gun” anywhere and get a digital readout of the exact temperature at



Fresh and Clean
White tubes reduce the amount of heat by bouncing it back instead of absorbing it.

that spot. If you want success every time, putting one thermometer in the middle of the room just won't cut it.

Supplemental Lighting

Adding supplemental lighting such as compact fluorescents (CFLs), T5 fluoro tubes or LEDs instead of another HID light works

great to keep a space cool. Typically arrayed either in an alternating checkerboard pattern or around the outside of a vertically lit space, these kinds of lights can drastically reduce both heat production and your energy costs.

Light Movers

Whether you put your lights on

a track or a spinner, light movers raise your growing footprint while also reducing heat. The light is spread around more, which means fewer leaves and tops are shaded out. Also, using a light-moving unit allows you to lower the bulbs a bit, improving the amount of lumens your plants receive at the canopy level. ✨



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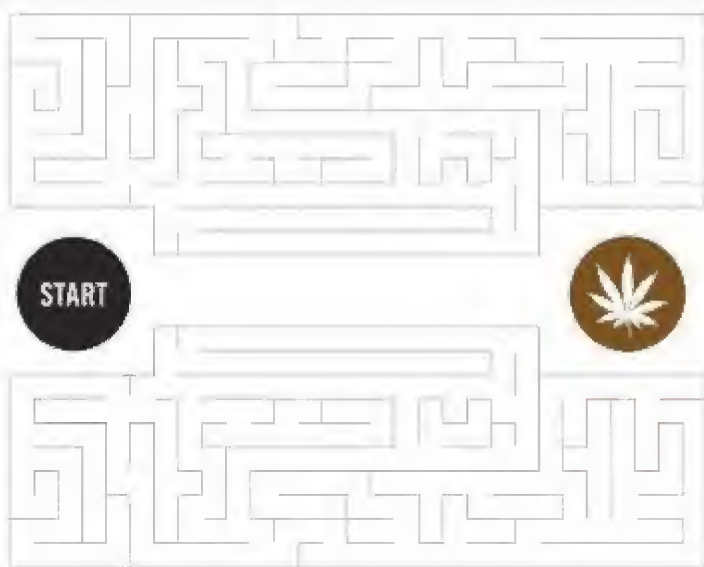
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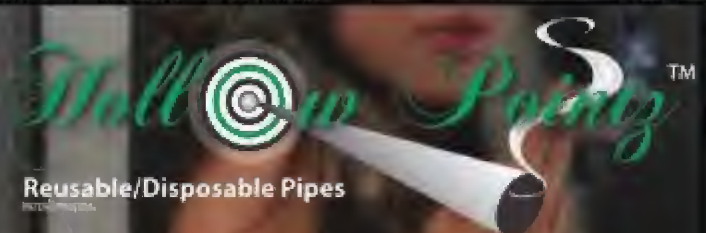


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Interview & photos by
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JAMIE KENNEDY

THE HIGH TIMES INTERVIEW

WE ALL REMEMBER THAT ONE KID IN SCHOOL WHO COULD DELIVER SPOT-ON IMPERSONATIONS OF VARIOUS TEACHERS, MINING THE ABSURDITY OF THE CLASSROOM FOR HUMOR AND EARNING HUGE LAUGHS. BUT AS SHARP AS HIS INSTINCTS ARE WHEN IT COMES TO GOING FOR THE COMIC JUGULAR, JAMIE KENNEDY INSISTS THAT HE'S AN ACTOR FIRST.

IN TRUTH, KENNEDY'S A SELF-MADE HOLLYWOOD MAVERICK, A PERFORMER WHO BLAZED HIS OWN TRAIL. HE WROTE AND STARRED IN THE SLYLY SUBVERSIVE *MALIBU'S MOST WANTED*, MADE MAYHEM ON *THE JAMIE KENNEDY EXPERIMENT* AND INFUSED DOZENS OF FILMS WITH HIS DEFT, SOMETIMES TWISTED CHARACTER CREATIONS. AND HE'S NEVER LEFT THE STAND-UP STAGE, WHERE FANS CAN WITNESS HIS RAZOR-SHARP COMIC INSTINCTS FIRSTHAND. (CHECK OUT *UNCOMFORTABLE* ON SHOWTIME FOR PROOF.)

THERE'S NO ARGUING THAT KENNEDY'S BRAND OF COMEDY CAN WREAK HAVOC. BUT THE MAN HIMSELF IS INTROSPECTIVE: HE EVEN WINCES WHEN LOOKING BACK ON SOME OF THE DISCOMFORT HE CAUSED HIS UNWITTING VICTIMS ON *THE JAMIE KENNEDY EXPERIMENT*. HE ALSO DESCRIBES HIMSELF AS "EMPATHETIC" AND BELIEVES HIS ABILITY TO DISSECT LIFE IN A HUMOROUS WAY IS DUE TO THE FACT THAT "HE'S CONNECTED TO PEOPLE." AS FOR MARIJUANA, KENNEDY INSISTS THAT IT STOKES HIS CREATIVITY "A HUNDRED PERCENT."

You were the youngest of six kids.

I'm the bambino.

Usually, it seems, older brothers and sisters encourage the youngest to perform or act silly.

Yeah, usually. You just go more nuts; you take more chances.

Plus you went to Catholic schools. You seem to come from a long line of comic performers who honed their skills there.

The nuns, yeah, *the nuns* ... I think there's a certain amount of repression that develops when you go through that. You can become the thing that they make you—like a Marine. Or you resist.

Around fifth grade, I started realizing I could make jokes and people liked it. The nun—her name was Sister Loyola—one time I was talking to somebody, and the next thing I know, my ear was getting yanked out. She got really close to my ear: "Mr. Kennedy, we're going to have a very good *ear*, aren't we?"—like she's making a pun. I'm like, "Yeah!" And she's like,

"*Yeahhh*—or you'll lose your ear!" And I'm like, "Okay!"

I was pretty scared after that.

Did you go through school having a good time, or were you a serious student?

In fourth grade, my mom challenged me: "All of our kids get good grades, and you don't." So, for one semester, I got straight As to prove that I could do it.

It was like a dare, but school just wasn't my thing. I loved performing and yoga and dance class. I think outside the box. I think you should find out what kids *want* to do, let them find their path. All you really need to do is read and write, right? And add. You never use anything else, right? If you want history, go to the History Channel. We got Google, you know what I mean?

When did you discover you really had a gift for mimicry?

Around seventh grade. My mom had friends from England, and they would come over and I would do these trial runs. There was an old



Kennedy hams it up at his Hollywood office.

Jewish guy in my neighborhood, Mr. Steingold, and I'd do him. You just copy them.

My brother is a really good musician. I think that it's similar—I just went into comedy, he went to music. It's an ear thing. Dustin Hoffman said an actor should be a boring person. I kind of agree with him. If I'm not acting, I *should* be boring. Because you should be a blank white piece of paper and let everything impress you. That way, you can be real. Like Daniel Day Lewis—I don't know how, but he is literally different in every role.

So what age were you when you came to Hollywood?

Just turned 19.

Did you try college out at all?

For a second. I was good at two things—making people laugh and cooking. Philadelphia had a big culinary institution. I was gonna do that, so I took a couple of courses at the community college. I took basic math and English, and I took cooking and acting. I got As in cooking and the acting, but in math and English, I wasn't as good.

My teacher told me, "You're a really good actor. You should just go to Hollywood." She was really cool. "Just go for it," she said. "You don't need to have a job or anything. Just do it!"

I'd wanted to quit high school because I had read different books about actors. There was one great book called *The New Breed: Actors Coming of Age*, with Robert Downey and John Cusack and James Spader talking about how they went to New York and slept on floors. That was how I wanted to be. But my mom wouldn't let me.

It's weird. I was a pretty popular kid—I had friends, but I felt like I was outgrowing things. I knew I was going to change my life. I saved like \$1,200 and literally took a plane to LA and arrived



Kennedy compares himself to Woody Allen: "I never would have gotten a job, if I hadn't written one for myself."

with no place to live. I went to the Y for eight bucks a night. Then I got a place with a buddy. I had money for just a few months. I got two menial—*very* menial—jobs at Red Lobster and a fitness club. Then I went to work, tried to figure it out—literally trial by error.

A lot of people say, "Well, I'll give myself about a year, and if someone doesn't discover me, I'm gonna quit." Well, it's not like that. I said, "I'll give myself about 10 years." Then I said, "If that doesn't work, I'll give myself another 10." Because I literally had nothing else.

So how does a 19-year-old get started in Hollywood?

I was going to open casting and extras calls. It's tough. I took an acting class—a hardcore acting class—for two years. I was just starting

"I was always known as the guy who had fun and poked fun at foibles. I wasn't trying to be mean. But I definitely like the dark side of stuff."

stand-up at night. For me, it was about doing anything to learn the profession of performing.

I was always a big reader of other people's how-tos. There's a story about Spielberg—I don't know if it's true or not—that he went to a back lot, moved into an office and

started making calls: "I'm calling from such-and-such." Sinbad said he posed as an important agent and called on his own behalf.

One of the jobs I had was delivering sandwiches. I'd go into the buildings of casting agents. I saw that the barrier was getting past the people out front, the gatekeepers. Once you got in, people didn't question you.

I was doing this character of Marty Power, an older Jewish guy, onstage at night. I decided to have Marty call an agency and pitch myself. It was like pitching pencils and erasers and office supplies—which, by the way, I used to sell. I thought, "I could be like a stapler!"

I worked it out and rehearsed it. Then I started calling: "How ya doin'? My name's Marty." And they were like, "Yeah, have the kid send his shit in." So I sent a picture, and they'd tell Marty: "Send some tapes." So I did, and they'd tell Marty: "He's not bad!" Eventually, I started making little inroads.

Was this ploy instrumental in your success?

A hundred percent. The best representation I've ever had is myself. People hate that and they're going to kill me, but really, it's because it's about you. *You're* the commodity. And the only way you're going to stay there is through your own choices and decisions. Woody Allen said he never would have gotten a job if he hadn't written one for himself. These are people who make their own things.

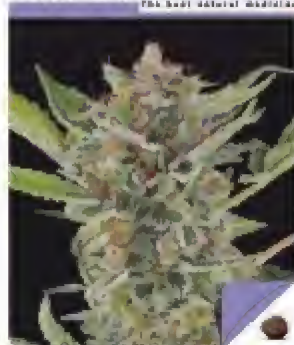
Like *Malibu's Most Wanted*, which was a terrific send-up of racial stereotypes. You played a rich white kid who thinks he's black. Was there any backlash?

Only from white people. It's a really subversive joke, that movie: It's light and watchable, but the commentary on the deepest level is that white people only take the

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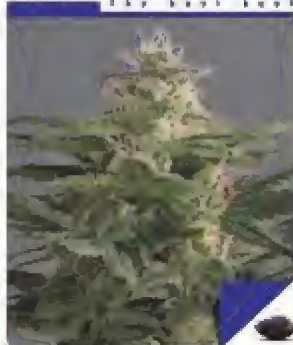
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good things from black culture. This kid is super-privileged and watches BET. Black people, they get the joke. People either really get it or they really hate it.

What motivated you to write that movie?

I was inspired by a few things. I was just a normal, dorky white kid, but I grew up with black people, Asian people and Puerto Rican people. When I grew up in Philly, I would take the subway to the city. You go through the hardcore part of Philly, people say “Wassup?” and they always had these huge-ass radios.

Then I come out to LA and I see kids on Rodeo Drive, and they’re like, “Yeah! What up, son?” and “Yo, what up, bitch?”

I’m like, “Where you from?”

“Yo, man, the Flats!”

And I’m like, “What?”

“The flats of *Beverly Hills*, motherfucker!”

Like, what the fuck? I’m thinking, “They’re not Bloods, they’re not Crips.” I mean, I grew up in Philly—I’d go to New York, I’d go to Boston, I’d see hardcore white kids hanging with black kids, and they were still themselves. So the more I saw the phenomenon, the more I realized it would be ripe for comedy.

The Jamie Kennedy Experiment was like a diabolical version of *Candid Camera*—very funny, but you really scared people.

Yeah, I was always known as the guy who had fun and poked fun at foibles. I wasn’t trying to be mean, but, yeah—I definitely like the dark side of stuff.

Did you think the piece involving the kid delivering pizza to the Mob went too far?

That was bad—that one, I felt bad about. I was like, “Ah, man, this poor kid.” That was just ... basically, that was evil, I will say that much.

When you pretended to be an abusive parent with NFL players around, did you ever fear that you might get physically reprimanded?

I didn’t. There was a weird, eerie sense of calm. I always felt safe because the environment was mine.

I think our show was different: I set up the jokes and I acted in them. We always tried to put real people under duress so they’d make active decisions

“It’s very stupid that it’s not legal. You don’t have to be a big smoker to advocate that.”



and test their morality code, if you will. I had some nice compliments. John Ritter, before he died, said he loved the show.

What about Ashton Kutcher’s *Punk’d* and Sacha Baron Cohen characters like Ali G, Borat and Bruno?

Punk’d was its own thing, just jokes on celebs. Sacha Baron Cohen’s stuff was very good also—a different form, though. It’s more like he’s saying, “Look how much smarter I am than you.” There’s some hilarious stuff, but I see the tricks, too. He picks marks with IQs of less than negative three. And there are editing tricks. But it’s obviously very good.

You came to LA in 1989. You’ve witnessed this whole normalization of marijuana here in California.

Doughnut.

Excuse me?

What I have witnessed is that doughnut is the flavor of the month.

Um, okay. Are you much of a pot smoker?

I’m not a huge smoker. I don’t buy it, but people give it to me sometimes. I’ll smoke to go to sleep. I only started when I became pretty successful as an actor. I took tokes now and then because a lot of people in Hollywood do it. Growing up Catholic, you’re told that it’s a gateway drug to heroin: Take one hit and the next thing you know, you’re straight freeballin’! You’re injecting heroin in your butthole! But then I realized that’s not exactly true.

Over the past 10 or 12 years, there are green crosses everywhere. My take: It should be 100 percent legal. It’s stupid that it’s not. It’s got medicinal purposes. If it’s decriminalized, it will help the state with taxes. It’s being sold anywhere and *everywhere*. Everyone you know has tried it, and it’s not going to ruin your life.

Look, I don’t wanna be Tommy Chong, but it’s very stupid that it’s not legal. You don’t have to be a big smoker to advocate that.

Do you find that pot stokes your creativity at all?

A hundred percent. Certain strains make you more creative, loosen the

synapses. You start writing, you start thinking, you start looking at things in a different light. It definitely mellows you out—the anger leaves.

You’re a big yoga practitioner. Have you used it for yoga?

It’s all about the strain. If you get the wrong one, you’re basically eating a pizza and watching reruns.

So what are you up to these days?

Over Valentine’s Day, *Cupid* came out—a Hallmark movie. I play Cupid. I know, when you think of me, you think “Cupid.”

We do.

I’m also working on a comedy pilot right now, waiting to see if it’s going to go to a series for TBS. I did a movie called *Lost and Found in Armenia* that I think could work. It’s about a guy who has a parasailing accident and gets mistaken for a Turkish guy in Armenia. If you know the history, well ...

I’m really just trying to do my own shit, you know? I mean, I like working for other shit, but my true voice comes when I create my own shit—like the old show.

Let’s go back to growing up Catholic: Did that provide you with a lot of comic material?

It used to. I did this joke: “The priest never even touched me, which made me think I wasn’t cute. So I had to join the Boy Scouts.”

Catholic humor—George Carlin was *genius* at it. He pointed out the hypocrisy of a lot of religion, like Bill Maher does really well now. I’m more of a boyish imp with it: I like saying provocative things, but I don’t want to piss you off. But now that I’ve turned 40, I’m less worried about what people think. You don’t want to hurt somebody’s feelings ... that’s the Catholic in me. I do believe you should treat people like you want to be treated.

But don’t you feel that *The Jamie Kennedy Experiment* hurt people sometimes?

A few times, I felt like garbage. There were times ... you lay your head on the pillow at night, you *know* what you did that day.

You are Catholic.

I know. It’s funny—it’s why, I think, the show worked. I’m very connected to the Earth; I’m connected to people. I read people well ... I’m empathetic! ✨

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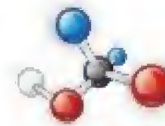
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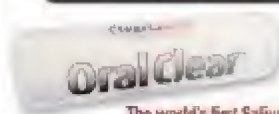
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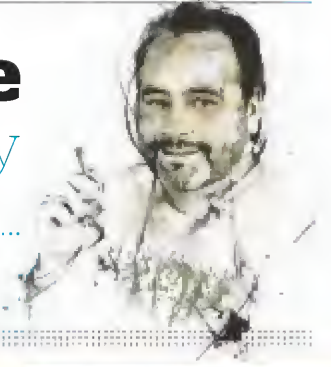


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SUBJECT: **Breeding Seeds**

FROM: **Adam in the Land of Bubblegum**

🌿 I'm considering trying my hand at being a pollen-chucker/closet hack (LOL). When growing for seeds, what's the best way to tell when they're mature and ready to harvest? I'll only be pollinating a single branch or two on the plant and leaving the rest seed-free for my wife's medicine. Thanks for doing the Free Weed radio show, and keep them coming!

Dear Adam,
I'm glad you made the distinction between true breeding and amateur experimentation. The words you chose are the derisive terms that some seed creators use to dismiss those who are just starting out, but don't let them fool you—those people were there at one point or another in their careers as well.

The important thing to understand is that breeding isn't simply a matter

of crossing one great plant with another. It requires an understanding of basic genetics and how to choose your offspring for desirable traits.

After pollinating your female plants with male pollen (usually done at some point between the third and fifth week of flowering, depending on the strain), your branch will begin to develop seeds. Take care to keep the pollen from getting on other branches or anywhere else that you don't want seeds to develop. (This isn't easy, as the pollen grains are light as air and quite tiny.)

Once pollination has occurred, the

white hairs will shrivel inward and seeds will start to form. As the plant approaches maturity, the seeds will swell out of the calyxes and be visible popping out of your buds. They'll be dark-colored with stripes and not white or immature-looking.

Harvest your seeded branches and hang them to dry, taking care to place a tray below to act as a receptacle for any seeds that pop out. Rub the dried-out branches between your hands to release the ripe seeds and then store them in a cool, dry place until it's time to plant again.

Danko Tip: When hanging and drying branches after harvest, never allow a fan to blow directly onto them. This will dry them out too fast and cause problems with the taste and burnability of your bud.



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SUBJECT: **Beware of the Light**

FROM: **Scotty Wotty**

🌱 How many days with a 12-hour dark cycle will it take until my plant buds?

Dear Scotty,

The flowering time of your plant is determined by its genetics. The average plant is ripe and ready to harvest after 60 days of the 12/12-hour light/dark photoperiod. Some indica-dominant plants will flower in as little as 45 days, while some sativa-dominant varieties can take up to 12 (or even 14) weeks! Keep in mind that any light leaks or interruptions in the 12 hours of darkness will set you back severely from this schedule and cause other residual problems as well.

SUBJECT: **Genetic Drift?**

FROM: **GP**

🌱 Hey Danny, I'm a big fan and love your rag. My collection goes back to issue no. 11 (July 1976). My first question is: How long can you clone a mother plant before she's spent? I had a (former) friend give me 20 clones of Sensi Star for my garden. I had a funny feeling when they started flowering—they had no scent and were not producing any resin glands. They sure looked good, with plenty of hairs and bulky buds, but I ended up with 2 pounds of hemp. I wasted my time and money with this crop. I also had hundreds of male flowers

(not from any stress, but they were out of control). My second question: Of course I ended up with seeds—but are they going to produce the same disaster that we just went through, or will they have gone back to the original genetics?

Dear GP,

Mother plants kept in good standing—meaning without stresses and problems—should continue to put out clones with the same potency and vigor for years. On the other hand, mother plants that have suffered in life and been traumatized will likely pass a certain amount of that trauma onto their rooted cuttings. Thus, keeping a mother plant healthy and thriving is the key to avoiding a loss in odor, flavor or potency.

The seeds you ended up with are not likely to amount to much, genetically speaking, based on your description of the “parent.” Seeds from a hermaphroditic plant tend to be 50% female and 50% hermie—not a good ratio for any future garden.

Start with strong genetics in seed form, grow them out, then choose the keepers for your mother plants based on their desirable traits. Flower clones from the seedlings, and use the clones to determine the sex of each plant—that way, you don't have to revert your plants back to vegetative growth from the flowering stage. This reduces stress on the eventual mother plant and allows you to

use the rooted clones to choose which “parents” to keep and turn into moms.

Also keep in mind that although mother plants don't need as much intense light as flowering ones, they do need at least 18 hours of light per 24-hour cycle to thrive. Never grow mother plants in the same room as your 12/12-hour flowering plants unless you plan to move them into another lit space when the lights go off.

SUBJECT: **Powdery Mildew (PM)**

FROM: **Rodney E.**

🌱 To start with, life would be one big question without High Times, so thanks for being there. I've been growing for many years and recently moved from Arizona to Oregon, but I've had a battle with my growroom for quite some time. My wife and I are both in our late fifties and both have our cards—and let me pull off to the left for a second and say that anyone who thinks there's no such thing as “medical” pot has never met my wife and seen the change for the good in her health that an army of doctors with all their tons of pills couldn't do!

And now back to my problem. I flower in a room that's about 6 by 12 feet. I have 12 plants in there and grow using Terraponics with flood trays. I use two 1,000-watt high-pressure sodium (HPS) bulbs. I employ plenty of circulation (intake and outtake fans) and two Eva-Dry 2000 dehumidifiers running at all times. My room temp runs about 72°F with the lights on and 65°F with them off. My humidity with the lights on runs around 45% to 50%, and up to 65% to 70% with the lights off. (I can't get it lower than that.) I run a clean room and wipe and clean between grow sessions.

Now the problem: I can't seem to get rid of the white powdery mildew. I've tried everything from baking soda and cinnamon sprays to organic mildew sprays with neem oil. After this harvest, I plan to try a mildew bomb—but if that doesn't work, I'm lost.

Dear Rodney,

In a moist environment such as Oregon, powdery mildew (PM for short) is a plague that affects many growers to varying degrees. The problem is that PM doesn't only thrive in high-humidity scenarios: It's in the air at all times (similar to bread mold) and can strike even when

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Danko Tip: Be gentle with plants (especially roots) when transplanting into larger containers. They'll recover more quickly from the stress of their move if you handle them with care during it.

humidity levels are below 50%. Anything over that, though, and it flourishes, so it seems you have a constant battle on your hands.

By "mildew bomb," I'm assuming you mean a sulfur burner, which can be quite effective as long as the plants haven't started flowering yet. A sulfur burner changes the pH on the surface of the leaves, making them temporarily inhospitable to molds.

Another possibility you may want to consider is making the switch from hydroponics to soil growing in containers. Having a 30-gallon or more reservoir in a growroom tends to raise the humidity significantly, and your two dehumidifiers don't seem to be removing enough of the moisture from the air.

I've also encountered a product called Messenger that contains Harpin protein. This powder, when diluted with water and sprayed onto plant foliage, works remarkably well and has a tremendous effect on fighting back PM. (Thank you to DarkCycle for that tip!)

SUBJECT: **Go West!**

FROM: **Avid Reader**

🐸 My wife and I are very fond of the world of medical marijuana; the only problem is that it isn't legal in our state. So my question to you is this: How would we look into moving to Colorado, California or another state where it is legal, because we'd like to get a job growing in one of these wonderful grow houses that we see in your magazine each month. The kids are getting older, and my wife and I want to follow our dreams to move away and grow. Let me know if you can provide me with any information. Thanks in advance, and keep helping us "Outgrow the Government!"

Dear Avid,

It isn't always easy to pick up and move to a new place, but at the same time, it's not as hard as many people think. I know of many folks who have moved to more marijuana-friendly states in the US and even to other countries like Spain or the Netherlands. Judging from the zealousness of those who seek to imprison us for our love of the plant, it's not at all a bad idea to flee to greener pastures.

The first thing to decide is the city and state you'd most like to relocate to. Factor in your wife's and your own personal



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preferences as to locales and then do some research on the areas. California and Colorado are the most obvious choices, but they're also swarming with people just like you, hoping to do the same thing. Consider Michigan, Maine, Oregon or one of the other 16 states that have medical-marijuana laws on the books. Your rent and overall cost of living can be drastically reduced in some of these places.

Next, go online and talk to people who live there to find out more about the situation on the ground—for example, how many plants can you legally grow? What type of application process and regulations will you have to endure? Federal crackdowns have made several once-desirable locations less friendly, so stay on top of the laws and consider hiring yourself a local lawyer to keep you abreast of any changes.

Several great resources exist for patients in medical-marijuana states, including Americans for Safe Access (ASA, safeaccessnow.org) and The Hemp and Cannabis Foundation (THCF, thcfoundation.org). Contact them for information on the varying laws and limits on patients and caregivers.

Finally, you always have the option of staying where you are and working hard to change the laws there to allow medical-marijuana cultivation. That way, you'll get to stay near the kids and keep doing what you want at home.

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SUBJECT: **Mixed Lighting**

FROM: **Toronto GQ**

Love the Free Weed podcast; please keep it coming! Now to my question: In your opinion, which is better to use during the flowering period in terms of high-intensity discharge (HID) lights—one metal halide (MH) bulb and one high-pressure sodium (HPS) bulb, or HPS lighting only with no MH at all? My setup consists of two lights next to each other in cool-tube hoods; one is a 600-watt HPS and the other is a 400-watt MH, and they both have their own digital ballast. I've read that having an HPS and an MH light is good because you get a wider spectrum of light/colors, but I've also been told that it really doesn't make a difference and that I should just go with all-MH for vegging and all-HPS for flowering. What's your take?

Dear Toronto,

If you can mix the two light spectrums, by all means do so. The best thing you can do if the lights are fixed in position is to move the plants around them so that each one gets a bit of both over time. MH lights mimic the blue-tinged white light of spring and summer, while HPS bulbs are meant to evoke the red-orange hues of fall. Mixing both gives you the best of both worlds in terms of full spectrum coverage, resulting in more photosynthesis and bigger leaves and plants. 🌱

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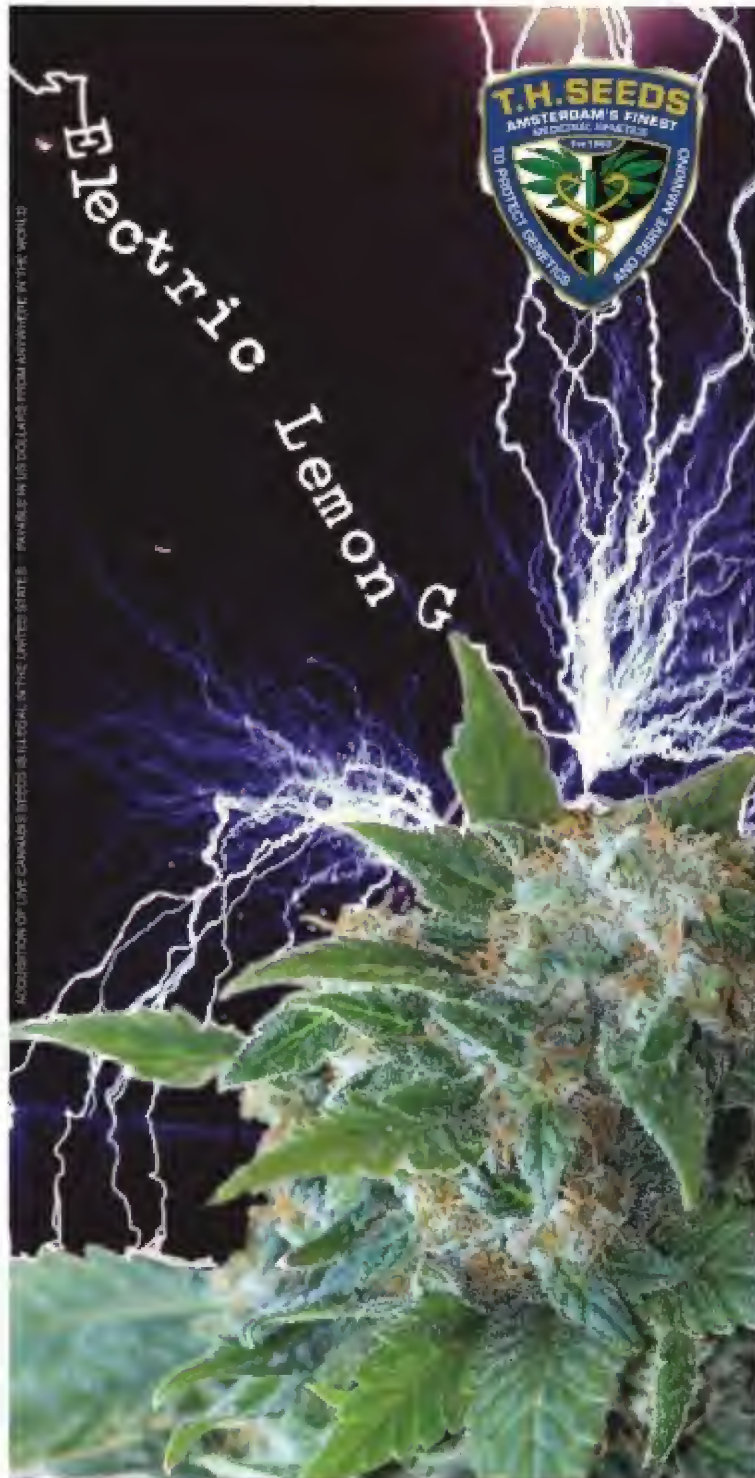
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Got a question for Dr. Mitch? Email him at 420research@gmail.com.

What's the deal with the different pronunciations of cannabinoid? Can't we just pick one—preferably the one with the same root pronunciation as cannabis?

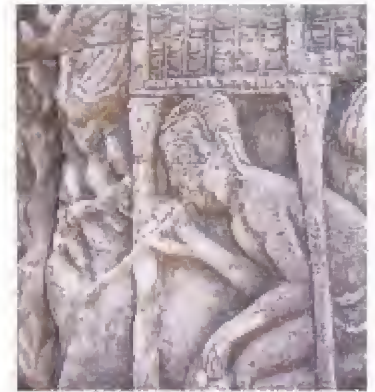
Evan

Hi Evan,
 Actually, *kuh-NAB-uh-noid* is the preferred pronunciation. The accent goes on the second syllable, same as in *preemptory*, *chimera* and *electoral*. Let's spread the word before the language police wreck it for everyone.

If a urine screen comes back positive, can you tell whether the person was high at the time it was taken, or only that they've used in the last couple of weeks?

Driver Dan

Hi Dan,
 Your liver breaks THC down into several things, including 11-hydroxy-THC, which is then broken down into 11-COOH-THC. Most urine tests focus on detecting 11-COOH-THC, because that's the stuff that remains in your system the longest. In theory, a guy with no 11-hydroxy-THC but plenty of 11-COOH-THC would have likely used the plant, but not recently. Few urine tests make this distinction, but it can be done. However, if your question is all about driving (considering your name), then I'd rather see the focus put on roadside sobriety tests, which determine far better than urine tests whether someone is capable of driving at the time. One can be impaired for all kinds of reasons, regardless of what trace elements are later found floating around in the blood or urine.



The medicinal use of cannabis dates as far back as 2800 to 2500 BCE.

What's the oldest cannabis ever found?

PK

Hi PK,
 That all depends: Clay pots have been unearthed dating back to 8000 BCE and decorated with hemp fibers. The legendary Chinese emperor Shennong (or whoever wrote the book on traditional Chinese herbal medicine attributed to him) mentioned that the medicinal use of cannabis dates as far back as 2800 to 2500 BCE. (We don't, however, have any of his legendary stash.) In 2008, a team of researchers uncovered an actual specimen of cannabis estimated to be 2,700 years old, which still contained some THC. Dr. Ethan Russo wrote about it in the *Journal of Experimental Botany*. It's currently the oldest stash we know of. ✨

Mitch Earleywine, Ph.D., is an associate professor of psychology at SUNY Albany and the author of Understanding Marijuana and The Parents' Guide to Marijuana.

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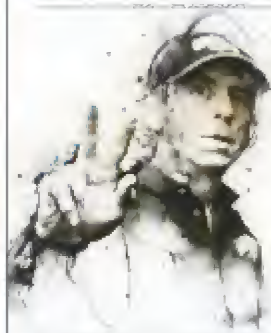
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Stoner Smart or Stoner Stupid Redux

Are there rules for smoking?

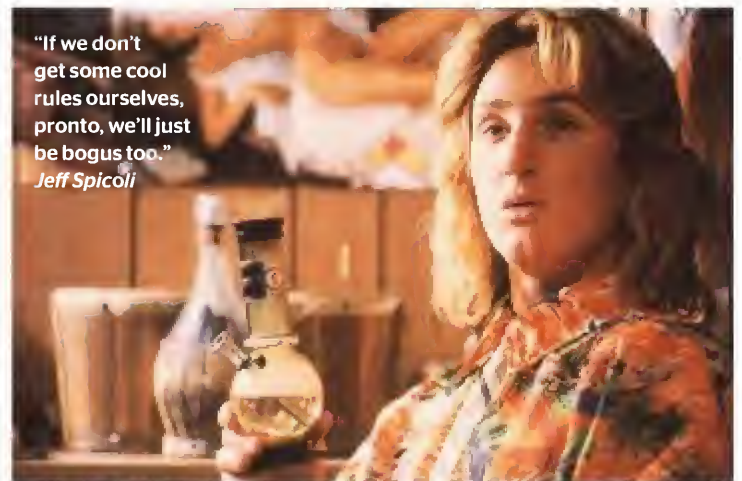
NO ARTICLE I ever wrote for HIGH TIMES produced as much controversy as the original “Stoner Smart or Stoner Stupid,” which appeared in the October 1998 issue. In it, I suggested that if we wanted to normalize the use of cannabis by adults, we first needed to establish cultural codes that would be acceptable to a consensus of society. I also noted that the significance of the numbers “420” could include a socially acceptable time of day to get intoxicated on cannabis—similar to the martini or “happy” hours taking place across the US and generally commencing around 5 p.m.

By far the lengthiest rebuttal to my thoughts on 420 came from a reverend in the THC Ministries, who also noted my introduction of 420 ceremonies at the Cannabis Cup in the 1990s before asserting that it was all a diabolical conspiracy on my part to introduce a hippie-fascist state in America (either that or I was the new Malcolm McLaren, manufacturing excitement for a new brand I was creating, given that a flurry of 420 products had appeared in HIGH TIMES by the close of the decade). Hopefully, fears of my establishing a hippie-fascist state have waned considerably since then.

But the 420 controversy continues, even to this day. Recently, I got the following message from “Lucas” who wrote: “I do not consider myself ‘stoner stupid’ just because I smoke everyday. I usually work high and I don’t receive any complaints.” Lucas, like many others, misses the whole point, which is simply to suggest that for *some* recreational users,

waiting until 4:20 p.m. to get high might be a good thing.

First, however, let me be clear once again: I am *not* attempting to prescribe rules for anyone, and especially not for medical users. Everyone is certainly welcome to get stoned whenever they



Let me be clear once again: I am not attempting to prescribe rules for anyone, and especially not for medical users.

like (and will probably continue to do so no matter what I or anyone else might say). However, it’s been my experience that I accomplish a lot more if I wait until later in the day to start toking. If you don’t particularly care about accomplishing things and just want to get high all the time, please feel free to ignore my advice—and the same holds true if you’re already accomplishing everything you want. I’ve met people, however, who have told me that they’ve benefited greatly from this piece of advice, and those people should stay the course and not return to their earlier wake-and-bake state of mind.

Finally, as Stephen Gaskin would always say: “Don’t be too ecumenical with the weed.” Even gentle guidelines like this one are meant to be bent or broken when necessary. It’s just a whisper from the top of Mount Tamalpais to future generations—and besides, nobody said you had to be smart all the time. ✨

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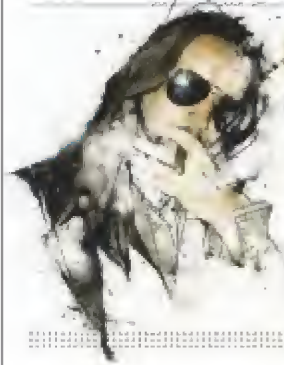


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To Infinity and Beyond

Stoner rock legends Monster Magnet and Kyuss return to the stage.

DURING THE EARLY to mid-'90s, a new subgenre of psychedelic jam metal—dubbed with the distinctly dubious moniker of “stoner rock”—began to materialize. Of all the great bands to emerge from this scene, there were two that truly set the standard and defined the sound: Kyuss from Palm Desert, CA, and Monster Magnet from Red Bank, NJ.

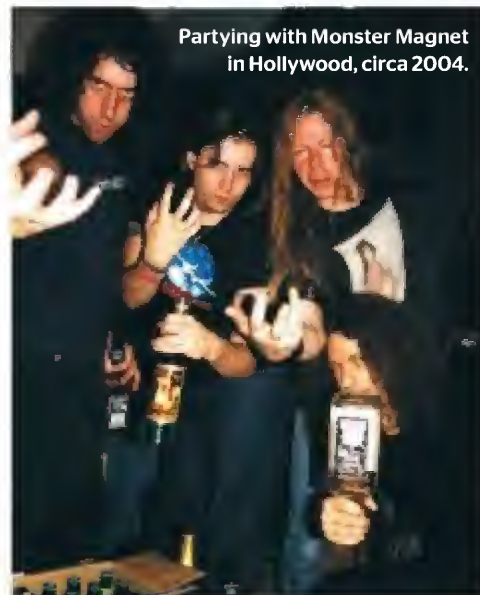
I was a fan of stoner rock before it *was* “stoner rock.” In 1992, I was one of only a handful of college DJs in the country playing tracks from Magnet’s *Spine of God* and Kyuss’s *Blues for the Red Sun*. By the time I started working for HIGH

was after one of Monster Magnet’s gigs at the Troubadour that I helped drummer Bob Pantella and bassist Jim Baglino polish off a bottle of absinthe by their hotel pool. And you don’t want to know what we ingested on the bus during their tour with Marilyn Manson.

Of all these guys, it was Magnet guitarist Ed Mundell that I was most friendly with, but I hadn’t seen him—or heard the band play—since...hell, I can’t remember when. So when I learned they were hitting the road to perform their classic *Dopes to Infinity* album from beginning to end, I was beyond psyched.

Apparently, though, it *had* been a long time, because when they took the stage, I was shocked to see that there’d been some changes. Magnet’s mastermind and frontman, Dave Wyndorf, had put on some weight; rhythm guitarist Phil Caivano was back in the band (after leaving in 2005); and, most surprisingly, my pal Ed had been replaced by some new guy. Now, Monster Magnet have had several members come and go over the years, but Mundell had been in the band for almost two decades and was responsible for their signature space-rock sound. In fact, I consider him one of the best psychedelic guitarists on the planet, and as much as I enjoyed the show, I must admit that it wasn’t quite the same without him.

I was even more thrilled, however, when Garcia, Oliveri and Bjork announced that they’d be reuniting (also without their infamous ax-man, Josh Homme, who now fronts Queens of the Stone Age) under the name Kyuss Lives. I’d only seen them perform once before they split up in ’95, so to make up for lost time, I saw them twice in their new incarnation—at NYC’s Terminal 5 and again at New Jersey’s historic Wellmont Theater. Their sound was as thunderously trippy as ever, and unlike the Magnet show, I hardly noticed Homme’s absence. Kyuss Lives are now recording their first album of new material since I started working here all those many years ago...and, just as I did then, I plan to get myself a copy on day one. ✨



Partying with Monster Magnet in Hollywood, circa 2004.

TIMES in 1994, the scene was exploding, and I found myself uniquely positioned to hail its glories to the masses, starting with my very first feature story, “Stoned by Rock.” A decade later, when I began hosting my *Contact High* show on Sirius Radio, I instituted a weekly segment called the “Mandatory Kyuss,” and I had Magnet on as my very first guests—performing live in the studio and sitting down with me for an exclusive interview.

Of course, my relationship with these bands hasn’t been *all* business: Kyuss bassist Nick Oliveri is a regular attendee at HT’s SXSW party; Kyuss drummer Brant Bjork and I have clinked bottles in both Chicago and NYC; and I’ve blazed out vocalist John Garcia backstage at the Troubadour in L.A. Come to think of it, it

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Support for legal cannabis continues to grow.
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Allen St. Pierre is the executive director of NORML. Visit norml.org.

THE NUMBER ONE question I'm asked these days by listeners on radio shows is: "What will marijuana legalization look like?" Compare that forward-looking inquiry to the most popular questions of the 1990s:

"Does marijuana cause people to become violent criminals?"

"Does marijuana make you go crazy?"

"Does marijuana cause males to develop breasts?"

Clearly, we've done a great job in educating the public. But with that said, what *will* marijuana legalization look like, and how is it likely to evolve? First, there's no doubt that medical cannabis represents the bridge to full legalization, for any number of reasons—including the tax and licensing revenues that would be collected by cash-strapped state and local governments. Then, too, everyday citizens, local policymakers and even the police will soon come to realize that a dispensary on Main Street is, frankly, no big deal for the community.

The ability of medical cannabis to pave the way for legalization can be seen in a state like Colorado, where medical cannabis is legal, regulated and taxed via a carefully restricted state program. Colorado's Medical Marijuana Enforcement Division seeks to control retail cannabis "from seed to stem to sale" through RFID (radio-frequency identification) tags and



Citizens, local policymakers and even the police will soon come to realize that a dispensary on Main Street is, frankly, no big deal for the community.

bar-scan technology. The Colorado model has an excellent chance of convincing other states to adopt a similar system—and for those state and federal lawmakers still on the fence about legalizing cannabis, such vanguard programs make it abundantly clear that cannabis *can* be regulated, taxed and controlled.

Our society is supposedly based on the

principles of the free market. But medical cannabis patients represent only about 10 percent of the market for cannabis, which leaves the vast majority of consumers at legal risk. And, as important as medical cannabis is to the individual patients who use it, its primacy as the principle vehicle for cannabis law reform will almost certainly wane.

Right now, fully half this nation—50 percent of Americans—support out-right legalization. In recent MassCann/NORML public polling, 58 percent of the voters surveyed said they support legalizing pot with controls similar to those for alcohol. Even more promising, in another series of questions, 63 percent of those polled said they supported legalizing pot without *any* new taxes or control regulations. Indeed, the issue of legalizing and taxing cannabis is now so mainstream that the otherwise staid journal *State Tax Notes* recently published a piece entitled "Laws to Tax Marijuana" by Patrick Oglesby, a noted taxation expert.

In terms of distribution, once cannabis is legalized for adult use, it can be made available through a range of outlets, from high-end grocers to mom-and-pop shops. But true legalization should always allow consumers to grow their own, both for personal use and to share with friends. ✨

FREEDOM FIGHTER

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Sam Chapman unifies cannabis advocates in Oregon.

Sam Chapman first began working on drug law reform as chapter leader for the University of Oregon SSDP, holding the position for three years before being appointed Oregon SSDP's state coordinator. During that time, he also served as director of the iF Group, an organization that focuses on a wide array of social justice issues.

Earlier this year, Chapman helped Oregon SSDP conduct its first-ever Cannabis Law Reform Conference, an effort to unify the three legalization initiatives currently vying for a place on the statewide ballot in November. The conference gave SSDP members in Oregon the opportunity to hear from representatives for each initiative and decide which one their group would endorse.



"Oregon SSDP hopes to set an example for other states to host their own Cannabis Law Reform Conference," Chapman says. "This way, initiatives with the best chance of making

the ballot in each state have well-organized, energetic and strategic groups of people and organizations working to pass progressive marijuana legislation."

The approach seems to be

catching on; California's SSDP chapters have since held a similar event. Chapman and Oregon SSDP hope this pragmatic approach helps to unify grassroots support behind one single initiative instead of segmenting that support across multiple efforts.

As for the upcoming election, Chapman predicts: "This is the year where students will recognize the power they hold at the polls. Young voters are going to make or break the 2012 election."

by Erik Altieri, NORML communications coordinator



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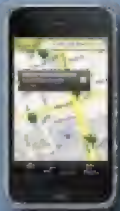
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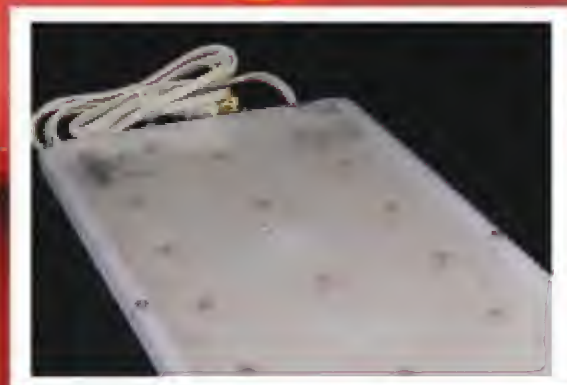
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Capacity: 12 Plants
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BUDS OF THE MONTH

Spain Strains Reign

 These two shots are of feminized BCN Diesel from Kanabia Seeds. I cured it for a month and it tasted superb. —Zebra



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GARDEN OF THE MONTH


Get the LED Out

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—JustBlaze



DOG OF THE MONTH


Sensi Sentry

 Hi! In the photo are a couple of Purple Kush babies being guarded by my daughter's bulldog, Betty. I hope you get a kick out of the photo as we did. The plants were all grown outside. —Andy



HARVEST OF THE MONTH

Sticky Rascal

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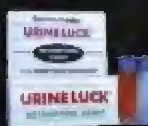
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The 100,000-Watt Growroom

Executive editor Dan Skye travels to BC and visits a veritable maze of indoor gardens that requires a 24/7 on-site staff.

Greenhouse Grow Basics

Growing in a greenhouse is surprisingly simple and inexpensive. Cultivation editor Nico Escondido breaks down the basics for the backyard grower, as well as for larger format operations.

Never Stop Harvesting

Create your own perpetual harvest system by growing generation after generation of clones that will provide you with a consistent supply of cannabis throughout the year.

Gardens of Survival

In Cauca, southern Colombia, farmers rely on pot crops to make ends meet while caught in the middle of a war between Colombian soldiers and FARC insurgents.

Is Oliver Stoned?

The legendary director of *JFK*, *Wall Street* and *Natural Born Killers* talks to sordid affairs editor Chris Simunek about pot, the War on Drugs, and his new film, *Savages*.

Doobie Redux

Senior editor Bobby Black heads back to Texas once again as we honor the best in music at the HIGH TIMES Doobie Awards.

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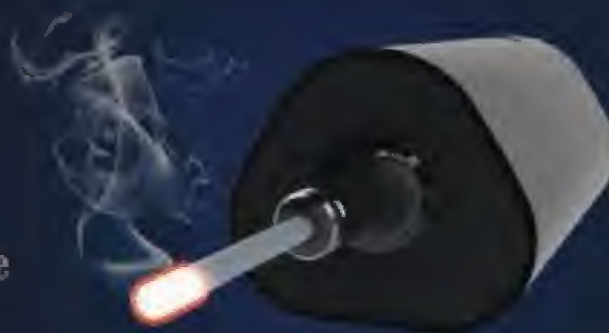
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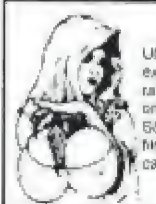
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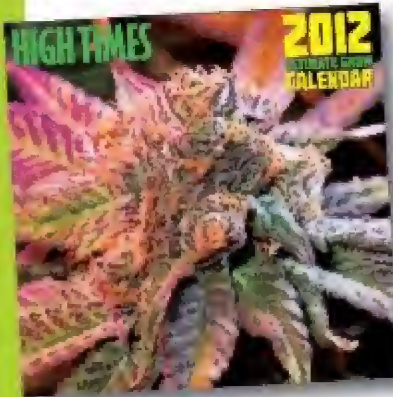


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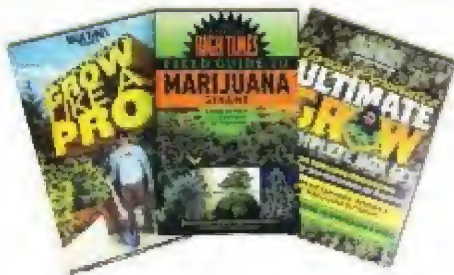
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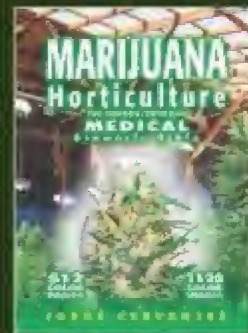


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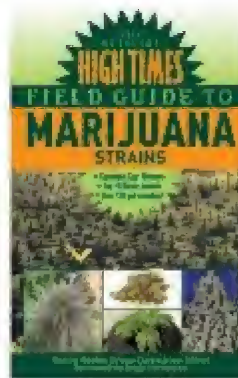


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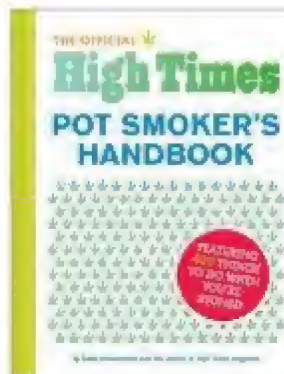
High Times Books



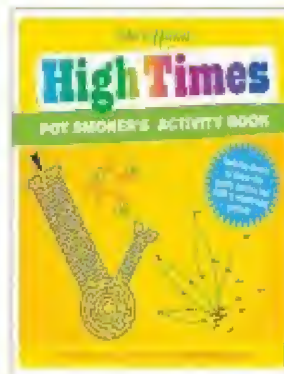
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By Danny Danko
This compendium covers the world's top pot varieties—all meticulously researched and lovingly described in terms ranging from odors and flavors to potency levels and medicinal properties. **\$14.95**



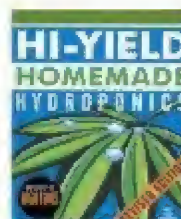
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The POT40



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1 **AAARRRRGGGHHH!**
My dealer has stopped answering his phone!!

2 **PUFF 4 PEACE**

3 **Grandpoohbah**
Have torch will travel

4 **Smoke-N-FLY**
Don't Drink And Drive When You Can

5 **Jupiter Jefferson**
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6 **JAGGER**
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7 **FREE MARCEMERY**
"WE MISS YOU PRINCE" -Mace

8 **Quit Clearcutting My Beautiful Mountain Tops!**
LEGALIZE HEMP! ALL

9 **DEFINITION OF LOVE:**
It's feeling that results in a mutual high.

10 **THE HASH DIARIES**

11 **MIGHTY HIGH**
Brooklyn's #1 Regressive Rock Act

12 **Help Occupy**
REAL SIMPLE: GET YOUR LOCAL OCCUPIERS STONED, GO TO YOUR NEAREST OCCUPY @ 420 AM PM WHATEVER AND SUPPORT

13 **PIGASUS**
FOR PRESIDENT
A RETRO CANDIDATE FOR MODERN TIMES (PIGASUS IS THE PIG THAT ABRIE HOFFMAN RAN FOR PRESIDENT IN 1966)

14 **HASH BASH**
in Ann Arbor Michigan

15 **HEY OBAMA!**
WHY DOESN'T THE GOVERNMENT TAKE 20 JOINTS, PUT THEM IN A PACK, TAKE 10 PACKS AND PUT THEM IN A CARTON, TAX THEM, AND SELL THEM AT A CONVENIENCE STORE? LIGHTBULB!
- Candice Litton, VA

16 **A drunk person runs through a stop sign. A high person waits for it to turn green.**

17 **Let's get talkin' reefer madness!**
like some arrogant government/ con by any stretch of the imagination/ outlaw a plant! yes, their supposed authority over nature is a dream
- Ani DiFranco

18 **IRON BUTTERFLY**

19 **PEACE**

20 **#1 BLUNTS**

21 **Stem**

22 **LADY ANS PRESENT**

23 **Find a happy place Find a happy place Find a... I found mine!**

24 **ACIDE**

25 **Learning to fight with a BO STAFF**

26 **WINNING \$290 PLAYING 420 ON THE LOTTERY. BUY A BAG, IT'S A GOOD DAY!**

27 **420 LIFE**

28 **SMOKE, EAT, SLEEP (LIFEAT)**

29 **A while high is a great place to live!**

30 **SWINGERS**
DOUBLE YOUR PLEASURE DOUBLE YOUR FUN!

31 **IF IT'S WORTH PLAYING IT'S WORTH PLAYING LOUD!**
JERRY GARCA, GRATEFUL DEAD

32 **4:19**
Sometimes it's ok to be a little edgy

33 **MARXISM**
Grocho • Harpo • Chico FOREVER!

34 **Love Liberate**
Now's the time for a blast from the past!

35 **SNOOP! WILLIE 2016**
Jus' say n yo!

36 **LIFE IS LIKE A SHIT SANDWICH -THE MORE BREAD YOU HAVE THE LESS SHIT YOU HAVE TO EAT!**

37 **FEAR**
IS THE MOTHER OF VIOLENCE.
- Peter Dinklage

38 **COURAGE IS WHAT IT TAKES TO STAND UP AND SPEAK. COURAGE IS ALSO WHAT IT TAKES TO SIT DOWN AND LISTEN.**
- Winston Churchill

39 **WE MAKE OURSELVES EITHER HAPPY OR MISERABLE. THE EFFORT IS THE SAME.**
- Carlos Castaneda

40 **TIME WOUNDS ALL HEELS**
- John Lennon

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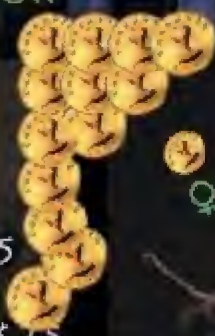
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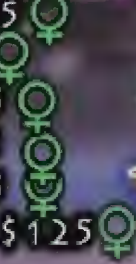
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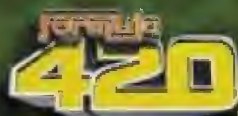
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